

Focus: Academia 2022

Offers on over 600 different products





OUR PROMISE

As the delivery channel of Avantor®, VWR provides access to mission-critical product and service solutions for the academic industry. We set science in motion to create a better world.

For 2022, we have launched Focus: Academia to replace our well-known Back To University campaign. We have included over 600 products across the Life Sciences, Equipment, PPE, Chemicals, Lab Supplies and Chromatography portfolios, offering exclusive discounts to support university teaching and research.

Carefully selected by our product specialist teams, Focus: Academia features product ranges from VWR Collection and our branded partners, offering premium equipment, new products and sustainable solutions ●

OUR ACADEMIC TEAM

Our team is on hand to help!

Your Account Manager as your main point of contact, is part of a focused team, to ensure that your account runs smoothly and efficiently.

Our team of Product Specialists offer expert advice and consultation in their respective fields. They are distributed across the UK and cover the 4 disciplines below:

- Life Science
- Capital Equipment
- Chemicals & Chromatography
- Safety & Cleanroom

This promotion offers fantastic prices on both ESSENTIAL and NEW products that your laboratory just can't do without!

VWR CURRENT FRAMEWORKS

VWR holds a successful record as a primary supplier on multiple university framework agreements. If you are a member of the awarding body, you have access to an extensive range of premium brand, well-stocked and competitively priced products covered by these agreements. Please contact VWR for any further information, as your one-stop-shop for laboratory supplies.

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PERSONAL PROTECTIVE EQUIPMENT



111-1846

SAFETY SPECTACLES, PRAGUE VWR, PART OF AVANTOR

These economical, compact cover glasses (OTG) fit over most prescription eyewear.

- Pantoscopic adjustment allows lens angle modification
- Adjustable temple length

2016/425/EU, EN 166:2001, EN 170; EN 166 FT CE (frame); 1 FT (lens).

Type	Lenses	Colour	Pk	Cat. No.	Price (£)
Anti-UV, anti-scratch, anti-fog	Clear PC	Blue	1	111-1846	2.53

Description	Pk	Cat. No.	Price (£)
Spectacle cords and pouches			
Spectacle bag, black	3	111-2384	1.49
Spectacle cord	10	111-2382	3.32



111-1847

SAFETY SPECTACLES, BUDAPEST VWR, PART OF AVANTOR

Wrap-around protective eyewear combining fashion, fit and function. One-piece PC lens and a lightweight, frameless design ensures a comfortable custom fit all day long.

- Adjustable temple length enables wearers to fit the eyewear to their facial profile
- Pantoscopic adjustment allows lens angle modification
- Integrated side shield
- Soft nose bridge for extra comfort

2016/425/EU, EN 166:2001, EN 170, ISO 9001:2008; 166 FT CE (frame) 1 FT (lens)

Type	Lenses	Pk	Cat. No.	Price (£)
Anti-UV (2-1,2), anti-scratch, anti-fog	Clear PC	1	111-1847	2.28

Description	Pk	Cat. No.	Price (£)
Spectacle cords and pouches			
Spectacle bag, black	3	111-2384	1.49
Spectacle cord	10	111-2382	3.32



111-0929

SAFETY SPECTACLES, DUBLIN VWR, PART OF AVANTOR

Lightweight spectacles with clear polycarbonate lens.

- Anti-scratch/anti-fog coating
- Moulded brow guard
- Soft nose pad
- Soft rubber temple pads

Weight: 25,5 g

2016/425/EU, EN 166, EN 170; 1 FT

Type	Lenses	Colour	Pk	Cat. No.	Price (£)
Anti-UV (2 - 1,2), anti-scratch, anti-fog	Clear PC	Transparent	1	111-0929	2.43

Description	Pk	Cat. No.	Price (£)
Spectacle cords and pouches			
Spectacle bag, black	3	111-2384	1.49
Spectacle cord	10	111-2382	3.32



111-0931

SAFETY SPECTACLES, VIENNA VWR, PART OF AVANTOR

Lightweight safety glasses with clear PC lens.

- Anti-scratch/anti-fog coating
- Pantoscopic adjustment for angle modification
- Moulded brow guard
- Adjustable temple length

Weight: 26 g

2016/425/EU, EN 166, EN 170; 1 FT

Type	Lenses	Colour	Pk	Cat. No.	Price (£)
Anti-UV (2-1,2), anti-scratch, anti-fog	Clear PC	Transparent	1	111-0931	2.32

Description	Pk	Cat. No.	Price (£)
Spectacle cords and pouches			
Spectacle bag, black	3	111-2384	1.49
Spectacle cord	10	111-2382	3.32



111-1841

GOGGLES, KINGSTON
VWR, PART OF AVANTOR

Wrap-around modern style goggles, especially designed for small faces, provides excellent panoramic vision. The goggles consist of a PC lens, PVC frame and polyester/rubber headband.

- High comfort with maximum protection
- Fitted with indirect ventilation
- Opalescent frame prevents light reflection

2016/425/EU, EN 166:2001, ISO 9001:2008; EN 166 3 4 BT CE (frame); 1 BT 0 (lens)

Type	Lenses	Colour	Pk	Cat. No.	Price (£)
Anti-UV, anti-scratch, anti-fog	Clear PC	Translucent blue	1	111-1841	2.37



111-1839

GOGGLES, MONTREAL
VWR, PART OF AVANTOR

Ergonomically designed wide vision goggles with co-injected frame provides 180° panoramic view. PC lens, PP (hard part) and AES Santoprene (soft part) frame, nylon headband.

- Indirect ventilation to prevent fogging
- Withstands extreme temperatures
- Designed to give optimum fit to all facial contours
- Easy four-step lens replacement

2016/425/EU, EN 166:2001, ISO 9001:2008; EN 166 3 9 BT CE (frame), 1 BT 9 0 (lens)

Type	Colour	Pk	Cat. No.	Price (£)
Anti-scratch, anti-fog	Black	1	111-1839	4.30



Continental™ Gradient safety specs

SAFETY SPECTACLES, SWISS ONE, CONTINENTAL™
JSP LTD

Offering a wide field of vision and lightweight design, Continental™ safety spectacles feature a non-slip nose and endtips providing wearers with optimal comfort for all day wear.

- Wraparound frame
- Adjustable non-slip nose
- Non-slip endtips
- Lateral protection

Developed in five different versions, including gradient lenses, Blue blocker lenses, and AR lenses for an amazing light transmittance.

Meets EN 166: 2001.

Description	Lenses	Pk	Cat. No.	Price (£)
Continental™ Blue Blocker safety specs	Blue Blocker	1	111-2573	6.53



Rigi™ Clear safety specs - Black / Blue

SAFETY SPECTACLES, RIGI™
JSP LTD

Ultra-lightweight safety spectacle with a wide field of vision to provide optimal coverage.

- Large field of vision
- Wide range of lenses available
- Optimal coverage

Whatever the workplace environment, Rigi™ spectacles deliver the perfect combination of performance, safety, and active style. The unique close fitting design, and ultra light weight (19g) ensure lasting comfort and fit. With a wide field of vision and a design to fit all faces, wearers can achieve a comfortable customised fit throughout the day. The ergonomic fit with flat and thin flexofit temples, is compatible with any ear defender or helmet.

Meets EN 166:2001.

Available in a wide range of lens versions, including excellence coating and a unique selection of Blue Blocker lenses.

Description	Lenses	Pk	Cat. No.	Price (£)
Rigi™ safety spectacles	Blue blocker, 30% filtration	1	111-2579	7.47
Rigi™ safety spectacles	Blue blocker, ladies	1	111-2580	7.47

PERSONAL PROTECTIVE EQUIPMENT



Safety spectacles, Solis Go Green, clear lens

SAFETY SPECTACLES, SOLIS GO GREEN BOLLÉ SAFETY

Solis Go Green safety spectacles combine the fundamental eyewear elements of protection, comfort, and style. Solis Go Green keeps all its assets and performances while being environmentally friendly.

- 100% recycled nylon frame made from fishing nets
- Recycled product maintains 100% compliance to international safety standards
- Full frame for added comfort and protection
- Non slip temples
- Wrap-around frame

Weight: 25 g

Guaranteed plastic-free, the products are wrapped in tissue paper and then stored in recycled cardboard boxes. The user instructions are printed with vegetable ink directly onto the packaging to reduce waste.

Environmentally preferable attribute		Sustainable Packaging			
Type	Lenses	Colour	Pk	Cat. No.	Price (£)
Anti-fog, anti-scratch	Clear PC	Black	20	111-2540	122.82
Anti-fog, anti-scratch	Smoke PC	Black	20	111-2541	133.39



SAFETY SPECTACLES, RUSH+ BOLLÉ SAFETY

The RUSH+ model adopts an ultra-sporty design with its co-injected and ultra-flexible temples and is 100% customisable.

- Upper protection
- Co-injected, ultra-flexible temples
- Non-slip adjustable bridge

With Platinum technology a permanent coating on both sides of the lens gives them a high resistance to scratching (1,4 cd / m²), withstands most aggressive chemicals, and delays the onset of fogging for 2 minutes. Designed for use in low light conditions, it improves contrast. The light transmission rate is ideal for use outdoors, particularly early morning and late evening.

EN 166 FT

Type	Lenses	Colour	Pk	Cat. No.	Price (£)
Anti-UV (2C-1,2), anti-fog, anti-scratch	Clear PC	White/blue	1	111-1628	5.04

Focus magazines

See our range of magazines that are packed full of editorials from leading suppliers and industry leaders. Stay updated with changes to legislation, product improvements and insights into making science more sustainable.

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COLD RESISTANT GLOVES, CRYO-GLOVES®
TEMPSHIELD

These hand-specific gloves protect hands and arms against the hazards of working in and with ultra-cold temperatures down to -196 °C. Lightweight, breathable, and comfortable, they provide protection from liquid splashes and cryogenic temperatures but are not safe for immersion in cryogenic liquids.

Cryo-Gloves® are offered in three configurations:

Water resistant: These gloves comprise of an outer shell consisting of nylon Taslan® with a liquid-proof, breathable membrane on the inner surface, and an inner insulated glove consisting of three layers (non woven synthetic insulation material + lining material). Not included in this promotion.

Waterproof: These gloves have the same construction as the water-resistant gloves but additionally feature a seamless, breathable, waterproof lining.

Cryo-Industrial®: These abrasion resistant gloves are comprised of an outer shell consisting of nylon Cordura® with a liquid-proof, breathable membrane on the inner surface, and an inner insulated glove consisting of three layers (non woven synthetic insulation material + lining material). The palm of the outer shell



is a nylon Cordura® substrate impregnated with a neoprene/polymer compound. Not included in this promotion.

EN 388, EN 511, Cat. III

Model	Ambidextrous / hand-specific	Disposable / reusable	EN norm
Waterproof	Hand-specific	Reusable	EN 388 (1323), EN 511 (321)

Model	Glove size	Colour	Length (mm)	Pk	Cat. No.	Price (£)
Waterproof						
Mid-arm	S	Blue	345 - 390	1 PAIR	112-9001	174.02
Mid-arm	M	Blue	345 - 390	1 PAIR	112-2708	174.02
Mid-arm	L	Blue	345 - 390	1 PAIR	112-2706	174.02



COLD RESISTANT APRONS, CRYO-APRON®
TEMPSHIELD

Cryo-Aprons® are multi-layer insulated aprons designed to provide protection to the torso and legs from contact with ultra cold surfaces in cryogenic atmospheres and from splashes.

- Protects against temperatures from -160 to +150 °C
- Fitted with adjustable straps and quick release buckles at the neck and waist
- Waterproof nylon outer shell protects from cryogenic splashes
- Cryo-Industrial® model features a rugged waterproof Cordura® nylon outer shell for improved safety

EN 511; Cat. III

Colour	Length (mm)	Pk	Cat. No.	Price (£)
Cryo-Apron®				
Blue	1380	1	113-2603	187.27



Face shield, Cryo-Protection™

FACE SHIELD, CRYO-PROTECTION™
TEMPSHIELD

Cryo-Protection™ face shield includes headgear that has a ratchet adjustable headband, a large splash guard, adjustable pivots and a replaceable injection-molded clear shield giving extended splash coverage both to the neck area and sides of the face.

Weight: 28 g

Size: 254×508×1,524 mm

Not intended for immersion in liquid nitrogen or other cryogenic liquids.

Description	L×W (mm)	Pk	Cat. No.	Price (£)
Face shield, Cryo-Protection™	254×508	1	111-2581	63.00

PERSONAL PROTECTIVE EQUIPMENT



Mask

VERTICAL FOLD FLAT DISPOSABLE MASKS, F600 SERIES JSP LTD

Vertical fold flat respirator with foam padded adjustable nose clip and extended chin coverage.

- Folds flat
- Foam padded nose bridge
- Toggle adjustment
- Individually packaged

A moldable nose bridge and foam pad on the inside provide comfort and a firmer fit. Metal-free toggle adjuster on each strap ensures an effective facial fit. Fold flat design is compact and easy to carry in a pocket. Packaged individually in a clear resealable bag. Valved and unvalved options are available.

Minimum filtration efficiency: 99% for FFP3 rated, 94% for FFP2 rated.

EN 149:2001 + A1:2009.

Description	Class	Pk	Cat. No.	Price (£)
Disposable mask, unvalved	FFP2	40	111-2582	9.83
Disposable mask, valved	FFP2	30	111-2583	12.01
Disposable mask, unvalved	FFP3	40	111-2584	32.22
Disposable mask, valved	FFP3	30	111-2585	30.89



Mask

MOULDED DISPOSABLE MASK, FFP3 JSP LTD

Moulded disposable respirator with comfort foam surround, adjustable nose clip, four-point adjustable harness, and exhalation valve.

- Exhalation valve
- Foam padded nose bridge
- 4-point adjustable straps
- 99% minimum filtration efficiency

A mouldable nose bridge and 360° foam area around the inside provide comfort and a secure fit. Metal-free, 4-point adjustable straps create a firm and adaptable fit.

FFP3 rating provides 99% minimum filtration efficiency.

Conforms to EN 149.

Description	Class	Pk	Cat. No.	Price (£)
Moulded disposable mask, valved	FFP3	10	111-2586	13.80

QUALITATIVE FIT TESTING KIT JSP LTD

Dust and half masks commonly fail to do the job they are intended to do because of poor fitting and care by the user. Qualitative Fit Testing can be used not only as a test method to ensure wearers are properly protected, but also as a very effective way of training them in the correct way of fitting a mask.

- Cost-effective solution for Respiratory Protective Equipment assessment
- To be used on what are defined as 'tight fitting respirators'
- Replacement fit test solution available
- Polypropylene test hood, polycarbonate nebuliser

Qualitative Fit Testing can be used on what are defined as tight fitting respirators, with the exception of full-face masks. The seal between the face and the edge of the mask is the most common problem area. The test employs a hood to create a small test chamber around the user's head, and a test solution, which has a bitter taste. As the test uses these two consumable parts and is designed to be carried out by the employer, it is a very cost-effective solution for assessing the ability of the selected Respiratory Protective Equipment and the training given to protect the employee.



Qualitative face fit testing kit

Safety standards: INDG 479, ED 6273, ISO 16975-3, UNI 11719.

Kit includes: 1 hood, 1 collar, 2 nebulisers (1 sensitivity, 1 fit test), 2 bottles of solution (1 sensitivity, 1 fit test), 1 instruction manual, and 10 test report forms.

Description	Pk	Cat. No.	Price (£)
Qualitative face fit testing, complete kit	1 KIT	111-2587	210.02



Surgical face mask

MEDICAL MASK, IIR
XIANTAO YONGLI

These medical face masks are made from a soft and flexible non woven fabric, and are free of natural latex.

- Excellent filter performance >99% BFE
- 3-ply design
- Latex-free elastic bands
- Nose bridge
- Guaranteed to meet 4.0 AQL level II

The 3-ply material construction features an 25 gsm SPP exterior, 25 gsm MB middle layer, and 25 gsm SPP interior. Colour: Blue.

LxW (unfolded): 170x90 mm

Complies with EN 14683:2019 Type IIR requirements.

Type	Size (mm)	Colour	Pk	Cat. No.	Price (£)
With elastic bands and nose bridge	170x90	Blue	1,000	113-9924	48.31
With elastic bands and nose bridge	170x90	Blue	50	113-9929	2.79

MAINTENANCE-FREE HALF MASK RESPIRATORS, 4000 SERIES
3M

4000 series maintenance-free half masks are simple and ready-to-use respirators with an integrated cartridge and filters. They provide protection against a range of organic gases and vapours, and combination particulate hazards.

- Newly enhanced valve assembly reduces exhalation breathing resistance for improved breathing comfort
- Lightweight, well-balanced, low-profile design
- Integrated cartridge and filters are ready to use and maintenance-free
- Adjustable head cradle and easy to fasten neck straps
- Centrally-positioned exhalation valve reduces heat and moisture build-up
- Includes a resealable bag for hygienic storage and transportation

The integrated cartridge and filters are maintenance-free. Simply use them until the change-out schedule indicates a replacement is needed or when the filters are full, and then discard. Masks will provide up to 40 hours of use life when stored in the resealable bag provided. An adjustable head cradle helps fit to a broad range of head shapes and sizes, and the neck straps are easy to fasten. The low-profile design won't hinder peripheral vision, and the two large, bonded-carbon filters ensure low breathing resistance.



DISPOSABLE PARTICLE FILTERING RESPIRATORS, FFP2, AURA™ 9300+ 3M

Ingenious 3-panel design fits a wide range of facial shapes and sizes.

- Low breathing resistance filter technology gives effective filter performance whilst providing improved comfort
- Cool Flow™ valve effectively removes heat build-up, removes exhaled air and minimises the risk of fogging eyewear
- Innovative chin tab improves ease of donning and adjustment to help achieve a comfortable fit
- Folds flat; easy to store when not in use
- Sculpted nose panel for improved compatibility with eyewear

EN 149:2001+A1:2009

* One size fits all

Type	Class	With valve	Size	Pk	Cat. No.	Price (£)
9320+	FFP2D	-	U*	20	111-0715	34.64
9322+	FFP2D	+	U*	10	111-0716	22.00
9332+	FFP3D	+	U*	10	111-0684	52.90



Half Mask 4251+, with FFA1P2 RD filter

FFA2P3 RD filter/cartridge protects against organic vapours with a boiling point greater than 65 °C, up to 10x Workplace Exposure Limit (WEL) or 5000 ppm (whichever is lower), and 20x WEL for particulates.

FFABE1P3 RD filter/cartridge provides protection against organic vapours with a boiling point greater than 65 °C, inorganic vapours, and acid gases up to 10x Workplace Exposure Limit (WEL) or 1000 ppm (whichever is lower), and 20x WEL for particulates.

FFABEK1P3 RD filter/cartridge provides protection against organic vapours with a boiling point greater than 65 °C, inorganic and acid gases and ammonia up to 10x Workplace Exposure Limit (WEL) or 1000 ppm (whichever is lower), and 20x WEL for particulates.

Description	With valve	Pk	Cat. No.	Price (£)
Half Mask 4255+, with FFA2P3 RD filter	+	1	111-2444	21.66
Half Mask 4277+, with FFABE1P3 RD filter	+	1	111-2588	23.58
Half Mask 4279+, with FFABEK1P3 RD filter	+	1	111-2445	26.57

PERSONAL PROTECTIVE EQUIPMENT



VWR Gloves, nitrile extra light



Gloves, Nitrile

NITRILE GLOVES, NITRILE EXTRA LIGHT VWR, PART OF AVANTOR

These thin, ambidextrous gloves are suitable for use in medical applications, food processing and for general lab requirements in non hazardous areas.

- Non sterile, powder-free, textured fingertips
- Very thin: Provide excellent elasticity for good wearer comfort
- Free from phthalates/softeners and allergenic latex proteins; particularly skin friendly for users with latex allergy
- Beaded cuffs for easier donning
- Low thickness and textured fingertips for excellent grip

EN ISO 374-1 Type B (KTP), EN 374-5 VIRUS, EN 455 1-4; ASTM D6319, ASTM F1671; MDR Class 1; PPE Cat. III

Food contact approved.

* Thickness is double measured, minimum values

Model	Nitrile Extra Light
Ambidextrous / hand-specific	Ambidextrous
Disposable / reusable	Disposable
Latex / latex-free	Latex-free
Powdered / powder-free	Powder-free
Cuff style	Beaded
Cuff thickness	0,10 mm*
Finger thickness	0,14 mm*
Palm thickness	0,12 mm*
EN norm	EN ISO 374-1 Type B (KTP), EN 374-5 VIRUS, EN 455 1-4
Food contact approved	+

Glove size	Colour	Length (mm)	Packed	Pk	Cat. No.	Price (£)
XS	Pale purple	240	200/box	200	112-4193	10.00
S	Pale purple	240	200/box	200	112-4194	10.00
M	Pale purple	240	200/box	200	112-4195	10.00
L	Pale purple	240	200/box	200	112-4196	10.00
XL	Pale purple	240	180/box	180	112-4197	10.00

NITRILE GLOVES VWR, PART OF AVANTOR

These ambidextrous gloves provide extra protection, particularly for sensitive skin.

- Non sterile, powder-free, textured finish
- Highly resistant to chemical solvents and fats
- Excellent grip, especially when holding wet objects
- Designed especially for latex allergy sufferers

For laboratory use in pharmaceutical and industrial applications, as well as for use in the food industry.

EN ISO 374-1 Type B (KTP), EN 374-5 VIRUS, PPE Cat. III; AQL 1.5

Food contact approved.

* Thickness is double-measured, minimum values

Model	Nitrile
Ambidextrous / hand-specific	Ambidextrous
Disposable / reusable	Disposable
Latex / latex-free	Latex-free
Powdered / powder-free	Powder-free
Cuff style	Beaded
Cuff thickness	0,20 mm*
Finger thickness	0,30 mm*
Palm thickness	0,22 mm*
EN norm	EN ISO 374-1 Type B (KTP), EN ISO 374-5 VIRUS
Food contact approved	+

Glove size	Colour	Length (mm)	Packed	Pk	Cat. No.	Price (£)
S	Blue	240	100/box	100	112-2371	12.68
M	Blue	240	100/box	100	112-2372	12.68
L	Blue	240	100/box	100	112-2373	12.68
XL	Blue	240	90/box	90	112-3101	12.68



Gloves, Nitrile light



Vinyl gloves

NITRILE GLOVES, NITRILE LIGHT
VWR, PART OF AVANTOR

These light, ambidextrous durable gloves are ideal for food handling, catering and kitchen work, medical and lab applications, and other tasks with complex risks. These thin nitrile gloves are free from phthalates, softeners and allergenic latex proteins.

- Non sterile, powder-free
- Low thickness and textured fingertips for excellent grip
- Particularly skin friendly for users with latex allergy
- Rolled cuffs minimise the risk of tearing

EN ISO 374-1 Type B (KTP), EN 374-5 VIRUS, MDR Class I; PPE Cat. III; AQL 1.5

Food contact approved.

* Thickness is double-measured, minimum values.

Model	Nitrile Light (240 mm)
Ambidextrous / hand-specific	Ambidextrous
Disposable / reusable	Disposable
Latex / latex-free	Latex-free
Powdered / powder-free	Powder-free
Cuff style	Beaded
Cuff thickness	0,12 mm*
Finger thickness	0,20 mm*
Palm thickness	0,16 mm*
EN norm	EN ISO 374-1 Type B (KTP), EN ISO 374-5 VIRUS, EN 455
Food contact approved	+

Glove size	Colour	Length (mm)	Pk	Cat. No.	Price (£)
S	Blue	240	100	112-2754	9.35
M	Blue	240	100	112-2755	9.35
L	Blue	240	100	112-2756	9.35
XL	Blue	240	90	112-2757	9.35

GLOVES, VINYL HYBRID
VWR, PART OF AVANTOR

A glove lower in price than nitrile and higher in quality than vinyl.

- Non sterile
- Powder-free
- Particularly skin friendly for users with latex allergy
- Rolled cuffs minimise the risk of tearing

These innovative vinyl gloves are made from a revolutionary new formula of vinyl-based hybrid material. The formulation combines vinyl and nitrile properties in one glove by using the best of each material and providing outstanding value. These gloves offer enhanced tactile sensitivity and good barrier protection for a wide range of applications, such as food handling, catering and kitchen work, lab applications, and other tasks with complex risks.

EN ISO 374-1 Type B (KTP), EN 374-5 VIRUS; Cat. III

Food contact approved.

* Thickness is double measured, minimum values.

Ambidextrous / hand-specific	Ambidextrous
Disposable / reusable	Disposable
Latex / latex-free	Latex-free
Powdered / powder-free	Powder-free
Finish	Smooth
Cuff style	Beaded
Finger thickness	0,18 mm
Palm thickness	0,16 mm
EN norm	EN ISO 374-1 Type B (KTP), EN 374-5 VIRUS
Food contact approved	+

Glove size	Colour	Length (mm)	Pk	Cat. No.	Price (£)
S	Blue	240	100	112-6071	7.20
M	Blue	240	100	112-6072	7.20
L	Blue	240	100	112-6073	7.20
XL	Blue	240	90	112-6074	7.20



93-833

NITRILE GLOVES, MICROFLEX® 93-833
ANSELL

These thin disposable gloves are up to 60% stronger than leading nitrile brands and up to 90% stronger than leading latex brands. They feature an advanced proprietary nitrile formulation which delivers an increased tactile sensitivity and reliable durability.

- Designed to reduce hand fatigue and help workers be more productive while exerting less muscle effort
- Help to protect workers from Carpal Tunnel Syndrome and minimise the risk factors towards developing ergonomic work place injuries
- Contain no natural rubber latex or powder to help protect wearers from skin allergies, skin irritation and dryness
- Textured fingers ensure strong, efficient grip and excellent worker protection
- Chlorinated for easier donning

Ideal for use in analytical testing, food processing, biotechnologies, laboratory applications, patient examinations, light assembly tasks and pharmaceutical manufacturing.

EN 455, EN ISO 374-1:2016 Type B (KPT), EN ISO 374-5:2016 VIRUS; Cat. III; AQL 0,65

Food contact approved

Ambidextrous / hand-specific	Ambidextrous
Disposable / reusable	Disposable
Latex / latex-free	Latex-free
Powdered / powder-free	Powder-free
Finish	Textured fingertips
Cuff style	Beaded
EN norm	EN 455, EN ISO 374-1:2016 Type B (KPT), EN ISO 374-5:2016 VIRUS
Anti-static	
Food contact approved	+

Glove size	Colour	Length (mm)	Thickness (mm)	Packed	Pk	Cat. No.	Price (£)
5,5 - 6	Blue	240	0,07	250/box	250	112-4270	20.88
6,5 - 7	Blue	240	0,07	250/box	250	112-4271	20.88
7,5 - 8	Blue	240	0,07	250/box	250	112-4272	20.88
8,5 - 9	Blue	240	0,07	250/box	250	112-4273	20.88
9,5 - 10	Blue	240	0,07	230/box	230	112-4274	20.88



93-853

NITRILE GLOVES, MICROFLEX® 93-853
ANSELL

These disposable gloves feature an advanced proprietary nitrile formulation which delivers an increased tactile sensitivity, reliable durability and up to 3 times the puncture resistance of latex or vinyl disposable gloves.

- Extended cuff provides additional protection for the wrist and arm
- Non stick properties are built into the glove formulation to create a resistance to tape or adhesives, and to assist workers with improved efficiency and speed
- Contain no natural rubber latex or powder to help protect wearers from skin allergies, skin irritation and dryness
- Textured fingers ensure strong, efficient grip and excellent worker protection
- Approved for use with chemotherapy drugs

Ideal for use in analytical testing, biotechnologies, laboratory applications and pharmaceutical manufacturing.

EN 455, EN ISO 374-1:2016 Type B (KPT), EN ISO 374-5:2016 VIRUS; Cat. III; AQL 0,65

Ambidextrous / hand-specific	Ambidextrous
Disposable / reusable	Disposable
Latex / latex-free	Latex-free
Powdered / powder-free	Powder-free
Finish	Textured fingertips
Cuff style	Beaded
EN norm	EN 455, EN ISO 374-1:2016 Type B (KPT), EN ISO 374-5:2016 VIRUS
Anti-static	+

Glove size	Colour	Length (mm)	Thickness (mm)	Packed	Pk	Cat. No.	Price (£)
5,5 - 6	Blue	295	0,14	50/box	50	112-4275	12.16
6,5 - 7	Blue	295	0,14	50/box	50	112-4276	12.16
7,5 - 8	Blue	295	0,14	50/box	50	112-4277	12.16
8,5 - 9	Blue	295	0,14	50/box	50	112-4278	12.16
9,5 - 10	Blue	295	0,14	50/box	50	112-4279	12.16



Great Price!

NITRILE GLOVES, KIMTECH™ PURPLE NITRILE™
KIMBERLY-CLARK

These gloves provide protection in life science and pharmaceutical manufacturing environments. They are latex-free, silicone-free, anti-static safety gloves that provide all the comfort and assurance that is needed in research laboratories. The synthetic nitrile polymer (Acrylonitrile Butadiene) is watertight with a low risk of pinholes, and once on, will both dissipate static and minimise any risk of latex or silicone hypersensitivity, helping to keep hands healthy and protected while supporting contamination-free research.

- Very good protection, cleanliness, and quality
- Stronger and thinner than latex with better protection against a wide range of chemicals including cytotoxic drugs
- Textured fingertips enhance grip and tactile sensitivity
- Beaded cuffs add strength
- Ambidextrous and disposable for rapid donning, doffing, and recycling

- Contain no natural rubber latex or silicone, reducing the potential for Type I glove-associated hypersensitivity reactions

These gloves are ideal for use in higher risk applications within life sciences, biomedical research, forensic science, and nonsterile drug manufacturing. Providing the highest level of protection in the Kimtech™ glove range, they are also food contact approved and provide protection against chemical splashes and microorganism hazards. They are also ISO 16604 virus resistant.

PPE Cat III (EU) 2016/425, EN 374-1 Type B (JKT), EN 374-5 (VIRUS); AQL 0.65

Food contact approved

Ambidextrous / hand-specific	Ambidextrous
Disposable / reusable	Disposable
Latex / latex-free	Latex-free
Powdered / powder-free	Powder-free
Cuff style	Beaded
Cuff thickness	0,11 mm
Finger thickness	0,16 mm
Palm thickness	0,14 mm
Tensile strength	21 MPa
Ultimate elongation	550% (before aging), 500% (after accelerated aging)
EN norm	EN 374-1 Type B (JKT), EN 374-5 (VIRUS)
Anti-static	+
Food contact approved	+
Environmentally preferable attribute	Waste Reducing

Glove size	Colour	Length (mm)	Packed	Pk	Cat. No.	Price (£)
XS	Purple	240	100/box	100	112-4845	17.50
S	Purple	240	100/box	100	112-4846	17.50
M	Purple	240	100/box	100	112-4847	17.50
L	Purple	250	100/box	100	112-4848	17.50
XL	Purple	250	90/box	90	112-4849	17.50



NITRILE GLOVES, KIMTECH™ PURPLE NITRILE™ XTRA™
KIMBERLY-CLARK

These Kimtech™ Purple Nitrile™ Xtra™ Gloves offer the same features as the Kimtech™ Purple Nitrile™ gloves, but with the additional benefit of an extended cuff (30 cm), offering extra protection.

Glove size	Colour	Length (mm)	Packed	Pk	Cat. No.	Price (£)
XS	Purple	300	50/box	50	112-4862	16.05
S	Purple	300	50/box	50	112-4863	16.05
M	Purple	300	50/box	50	112-4864	16.05
L	Purple	300	50/box	50	112-4865	16.05
XL	Purple	300	50/box	50	112-4866	16.05



Chemical resistant gloves, nitrile, flocklined



37-675

**CHEMICAL RESISTANT GLOVES, NITRILE, FLOCK-LINED
VWR, PART OF AVANTOR**

Gloves are made from a specially formulated acrylonitrile butadiene compound that provides outstanding protection against a wide range of chemicals, including strong detergents, greases, oils, most solvents and acids.

- Superior resistance to abrasion, cut and puncture when compared to natural rubber gloves
- Higher durability and longer wear than natural rubber gloves
- Do not contain latex proteins
- Patterned palm and fingers provide excellent grip in both wet and dry conditions
- Cotton flock lining offers added comfort and better absorption of perspiration

Ideally suited for use in automotive industry, chemical processing, oil refining, petrochemical industry, general industrial, food processing, printing industry, metal fabrication, painting and janitorial applications.

Latex / latex-free	Latex-free
Powdered / powder-free	Powder-free
Liner material	Flock
Finish	Patterned

Glove size	Colour	Pk	Cat. No.	Price (£)
S	Green	12 PAIR	112-5652	17.86
M	Green	12 PAIR	112-5653	17.86
L	Green	12 PAIR	112-5654	17.86
XL	Green	12 PAIR	112-5655	17.86
XXL	Green	12 PAIR	112-5656	17.86

**CHEMICAL RESISTANT GLOVES, ALPHATEC® SOLVEX 37-675
ANSELL**

These nitrile gloves with cotton flock lining are designed to deliver optimal results in wet or dry work environments where chemical resistance is crucial.

- Fully reusable, very good abrasion resistance
- Cotton flock lining combined with the flexibility of the nitrile film offer exceptional comfort for the wearer
- Sandpatch finish gives the glove a smooth surface that decreases indirect costs thanks to fewer rejects of fragile parts
- Antistatic according to EN 1149

Typical applications include: Agrochemicals, chemical processing and preparation, metal fabrication, printing industry, and refining - Oil & Petrol.

EN ISO 374-1:2016 Type A (JKLOPT), EN ISO 374-5:2016 VIRUS, EN 388:2016 (4101X); Cat. III

Food contact approved

Model	37-675
Ambidextrous / hand-specific	Hand-specific
Disposable / reusable	Reusable
Liner material	Cotton
Finish	Sand patch
Cuff style	Gauntlet
EN norm	EN ISO 374-1:2016 Type A (JKLOPT), EN ISO 374-5:2016 VIRUS, EN 388:2016 (4101X)
Anti-static	+
Food contact approved	+

Glove size	Colour	Length (mm)	Thickness (mm)	Packed	Pk	Cat. No.	Price (£)
6	Green	330	0,38	12 pairs/bag	12 PAIR	112-0967	28.73
7	Green	330	0,38	12 pairs/bag	12 PAIR	112-1380	28.73
8	Green	330	0,38	12 pairs/bag	12 PAIR	112-1381	28.73
9	Green	330	0,38	12 pairs/bag	12 PAIR	112-1382	28.73
10	Green	330	0,38	12 pairs/bag	12 PAIR	112-0210	28.73



NITRILE GLOVES, NITRILE GREEN
VWR, PART OF AVANTOR

These single-use examination and disposable protective gloves are made from nitrile and are developed with sustainability in mind. They are suitable for use in medical applications, food processing and for general lab requirements in non hazardous areas.

- Free from chlorine, natural rubber latex proteins and rubber accelerators, particularly skin friendly for users with latex allergy
- Non sterile, powder-free
- Textured fingertips provide extra grip for wet or dry applications
- Synthetic inner coating for fast and easy glove donning
- Comfortable, strong glove material ensures stability and wearer comfort over long periods of time

Thanks to new sustainable and innovative production methods, you can reduce your eco-footprint while still wearing a glove that is skin friendly, and provides superior barrier protection against blood-borne pathogens and viruses. The production process for these gloves has been redesigned to save gas, electricity and CO₂ emissions.

EN ISO 374-1 Type B (KTP), EN 374-5 VIRUS, MDR Class I; PPE Cat. III; AQL 1.5

Food contact approved.

Supplied in a practical 180 or 200 piece big pack for simplified stock logistics, reduced replacement intervals in the workplace, and less packaging waste.

* Thickness is double-measured, minimum values

Model	Nitrile PF Green
Ambidextrous / hand-specific	Ambidextrous
Disposable / reusable	Disposable
Latex / latex-free	Latex-free
Powdered / powder-free	Powder-free
Finish	Textured fingertips
Cuff style	Rolled
Cuff thickness	0,10 mm*
Finger thickness	0,14 mm*
Palm thickness	0,12 mm*
EN norm	EN ISO 374-1 Type B (KTP), EN 374-5 VIRUS
Food contact approved	+

Glove size	Colour	Length (mm)	Packed	Pk	Cat. No.	Price (£)
XS	Mint green	240	200/box	200	112-5154	19.00
S	Mint green	240	200/box	200	112-5155	19.00
M	Mint green	240	200/box	200	112-5156	19.00
L	Mint green	240	200/box	200	112-5157	19.00
XL	Mint green	240	180/box	180	112-5158	19.00



Cut protection gloves, PU coating, gray/black



Cut protection gloves, PU coating, black

CUT RESISTANT GLOVES ADVANCED
VWR, PART OF AVANTOR

The VWR® Advanced glove with polyurethane coating provides enhanced cut protection for a range of applications that would include a high risk of cuts.

- ANSI A3 Cut Protection (Level C)
- Nylon/spandex/polyester blend composition
- Polyurethane (PU) coating on palm and fingertips
- Grey knitted gloves with black coating

Ideal for handling items or tools with a high risk of cuts, including handling of items with sharp or jagged edges, assembly, maintenance, and janitorial applications.

Meets requirements for ANSI A3 Cut Resistance. EN 388:2016 (4X43C).

Certified by OKEO-TEX meeting Standard 100 certifying that no harmful substances are used in the production of these products.

Ambidextrous / hand-specific	Hand-specific
Disposable / reusable	Reusable
Latex / latex-free	Latex-free
Finish	PU palm coating
Gauge	13
Cuff style	Knit wrist
EN norm	EN 388:2016 (4X43C)

Glove size	Colour	Pk	Cat. No.	Price (£)
7	Grey/black	12 PAIR	112-5686	26.28
8	Grey/black	12 PAIR	112-5687	26.28
9	Grey/black	12 PAIR	112-5688	26.28

PRECISION GRIP GLOVES, PU COATING
VWR, PART OF AVANTOR

VWR precision grip gloves with polyurethane coating provide basic cut protection and protection against mechanical risks.

- ANSI A1 Cut Protection (Level A)
- Nylon composition
- Polyurethane (PU) coating on palm and fingertips
- Black knited glove with black coating

Ideal for handling small components, or situations that require dexterity in a dry and/or dirty environment. Also great for package handling, picking, and packing.

Meets requirements for ANSI A1 Cut Resistance. EN 388:2016 (4131X)

Certified by OKEO-TEX meeting Standard 100 certifying that no harmful substances are used in the production of these products.

Ambidextrous / hand-specific	Hand-specific
Disposable / reusable	Reusable
Latex / latex-free	Latex-free
Finish	PU palm coating
Gauge	15
Cuff style	Knit wrist
EN norm	EN 388:2016 (4131X)

Glove size	Colour	Pk	Cat. No.	Price (£)
6	Black	12 PAIR	112-5697	7.44
7	Black	12 PAIR	112-5698	7.44
8	Black	12 PAIR	112-5699	7.44
9	Black	12 PAIR	112-5726	7.44
10	Black	12 PAIR	112-5727	7.44
11	Black	12 PAIR	112-5728	7.44



Kimtech™ Opal™ Glove hero image

NITRILE GLOVES, KIMTECH™ OPAL™
KIMBERLY-CLARK

Kimtech™ Opal™ Nitrile Gloves guard against contamination by chemical splash and micro-organism hazards. Powder-free, ambidextrous, with beaded cuff and textured fingertips. The absence of natural rubber latex and vulcanizing agents reduces the risk of TYPE I and IV glove-associated skin reactions.

- Assured compliance
- Formulated without thiurams, thiazoles, guanidines, carbamates, and no sulphur added
- Soft, comfortable, and easy to don
- Textured fingertips enhance grip and tactile sensitivity for safer and more efficient processes
- Dark colour to enhance concentration on task
- Available in a wide range of sizes, from XS to XL

These gloves guard against contamination by chemical splash and micro-organism hazards, delivering seamless protection when and where it counts. The powder-free gloves are ideal for use in research and production facilities, life sciences, and non-sterile drug manufacturing applications. The gloves feature an innovative approach using a thin nitrile polymer

with a tip thickness of just 0,07 mm, but with excellent tensile strength suitable for rigorous process use. Easy to don, soft, and comfortable, the gloves are suitable for extended wearing time.

The absence of natural rubber latex, sulphur, and vulcanizing agents reduces the risk of TYPE I and TYPE IV glove-associated skin reactions, protecting the wearer as well as the application. Precision manufacturing reduces the risk of contamination and ensures the nitrile gloves offer high levels of regulatory compliance. Beaded cuffs and textured fingertips enable excellent handling of both wet and dry materials, and the ambidextrous gloves have been extensively tested under stringent conditions. In addition, the thin nitrile construction and efficient packaging mean that the chemical-resistant gloves can reduce waste by up to 50%.

Category III PPE product certified according to the regulation (EU) 2016/425 and to the regulation (EU) 2016/425 as brought in the UK law and amended, - EN ISO 374-1 Type B (KPT) chemical splash protection, - EN 374-4 resistance to degradation by chemicals, - EN ISO 374-5 microorganism and virus protection.

Ambidextrous / hand-specific	Ambidextrous
Latex / latex-free	Latex-free
Powdered / powder-free	Powder-free
Finish	Textured fingertips
Cuff style	Beaded
Material	Nitrile

Glove size	Colour	Length (mm)	Pk	Cat. No.	Price (£)
XS	Dark blue	240	200	112-6223	18.30
S	Dark blue	240	200	112-6224	18.30
M	Dark blue	240	200	112-6225	18.30
L	Dark blue	240	200	112-6226	18.30
XL	Dark blue	240	170	112-6227	16.01



SURE cleaner disinfectant spray 6x0.75 L



CLEANER DISINFECTANT SPRAY, SURE®
DIVERSEY

Ready-to-use detergent disinfectant for the cleaning and disinfection of all surfaces in food premises.

- No fragrance nor dye, natural odour present due to plant based ingredients
- Contains plant based actives from renewable sources
- 100% biodegradable and decomposed by natural processes
- No environmental hazard classifications, no safety warnings for user

SURE® Cleaner Disinfectant Spray is part of a unique range of plant-based, 100% biodegradable cleaning products that deliver the professional cleaning results you need - while being safe for people and kind to the environment. SURE® natural cleaning products provide safety and sustainability without compromising on performance.

Bottles/cans suitable for recycling.

OECD 301B. Cradle to cradle certification at gold level.

Use biocides safely. Always read the label and product information before use.

Environmentally preferable attribute	Sustainable Materials, Waste Reducing, Safer Human and Environmental Health, Sustainable Packaging
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Description	Packed (l)	Pk	Cat. No.	Price (£)
SURE® cleaner disinfectant spray	6x1 L Bottle	6 Bottle	141-1576	69.34

INSTANT HAND SANITISERS, SURE®
DIVERSEY

Disinfects hands in one easy step without the need for water. Non-classified highly efficacious alcohol-free foam hand rub with a refreshing fragrance.

- 100% biodegradable and decomposed by natural processes
- Passes EN test standard EN1500, EN13727, EN1276, EN13624 (yeast), EN1650 (yeast), EN14476 (Modified Vaccinia Ankara)
- Passes the latest BPR test requirements for hand disinfection
- 100% natural perfume for a refreshing fragrance
- Extensively tested skin mildness (Patch test)
- No environmental hazard classifications, no safety warnings for user

SURE® Instant Hand Sanitizer is part of a unique range of plant-based, 100% biodegradable cleaning products that deliver the professional cleaning results, while being safe for people and kind to the environment. SURE® natural cleaning products provide safety and sustainability without compromising on performance.

100% biodegradable according to OECD 301B test. Cradle to cradle certification at gold level.

Use biocides safely. Always read the label and product information before use.

Description	Pk	Cat. No.	Price (£)
SURE® Instant Hand Sanitizer, 0,475 L	6 Bottle	115-2966	60.52



**FOOD AND HYGIENE WIPING PAPER,
CENTREFEED ROLL, WYPALL® REACH™
KIMBERLY-CLARK**

WypAll® L10 centrefeed roll, designed for light-duty hygiene wiping and perfect for tasks like cleaning food preparation and service surfaces. Compatible with the portable WypAll® Reach™ dispenser (115-2528) which ensures rolls remain enclosed to help prevent against transmission of food-borne bacteria.

- Each WypAll® L10 centrefeed roll contains 430 embossed wiping paper sheets
- Designed specifically for the WypAll® Reach™ wiping paper dispenser, using the red dispensing nozzle

- Wiping rolls remain clean and enclosed to help prevent against transmission of food-borne bacteria
- Centrefeed roll format allows for easy, single sheet dispensing
- Single-use cleaning wipes are designed to be used once with detergent or disinfectant

ISO 14001; ISO 9001.

Description	Colour	LxW (mm)	Pk	Cat. No.	Price (£)
Food and hygiene wiping paper	White	380x183	6 Roll	115-2529	23.85



CENTREFEED DISPENSER, WYPALL® REACH™
KIMBERLY-CLARK

Transparent black, portable, single-sheet wiper dispenser. Ensures rolls remain clean and enclosed to help prevent transmission of food-borne bacteria. Fits service and retail centrefeed rolls (115-2527) and food and hygiene centrefeed rolls (115-2529 and 115-2531).

- One portable centrefeed white roll or blue roll dispenser
- Fits one white or blue roll at a time
- Portable centrefeed roll dispenser designed for use in service, retail, and food preparation environments
- Design ensures centrefeed rolls remain clean and enclosed to help prevent against transmission of food-borne bacteria

This easy to handle, portable and enclosed white roll and blue roll dispenser system is designed to keep the centrefeed roll clean, which helps to prevent against transmission of food-borne bacteria. The single sheet dispensing is designed to minimise contamination whilst encouraging efficient use of the paper wipes. The WypAll® Reach™ dispenser is also available with a bracket which allows housing the dispenser or transforming it into a wall mounted dispenser (115-2528).

Description	WxDxH (mm)	Colour	Pk	Cat. No.	Price (£)
Reach™ Centrefeed dispenser	254x180x220	Black	1	115-2967	25.35



Disinfectant wipes 70% IPA

CLEANROOM WIPES, PRE-SATURATED
BASAN

These economical wipes made of 100% polypropylene in a triple layer construction are impregnated with a 70/30 solution of IPA (Isopropyl Alcohol) and DI water and provide excellent cleaning and disinfection of hard surfaces. They are ideal for cleaning cleanrooms and other areas where contamination control is important.

- Ideal for hard surface disinfection in medical, healthcare and laboratory environments
- Can be used to pre-clean or decontaminate surfaces prior to sterilisation or high level disinfection
- Fabric provides excellent release properties to lay disinfectants on surfaces plus reabsorb dissolved soils
- Available as standard and double-bagged irradiated version

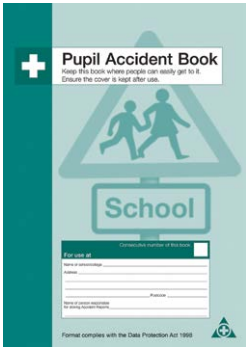
Wipes are effective against gram-positive and gram-negative bacteria and most viruses and fungi, such as MRSA, SARS, VRE, Salmonella, HIV and TB.

Weight: 18 g/m²

200 wipes per cleanroom compatible plastic tub. Irradiated version is double bagged and supplied with a certificate of irradiation

* This product is outside of the scope of the EU Directive 2019/904

Description	Pk	Cat. No.	Price (£)
Tubwipe Paltech Precision 70% IPA, 200 mm x 200 mm, 20 GSM polypropylene, tub of 200 wipes	1	BSNCW808110PT	6.12



ACCIDENT BOOK, A5
SAFETY FIRST AID

By law every business must record accidents to employees and visitors. This Accident book enables compliance with all requirements of the Social Security Administration Act 1992 and Data Protection Act 1998.

- Aids compliance with the Data Protection Act
- Space to record a total of 26 incidents
- Provides a quick and easy system for recording accidents in the workplace

Description	Pk	Cat. No.	Price (£)
Accident book, A5	1	818-0246	5.99



EYEWASH STATION, HYPACLENS
SAFETY FIRST AID

This wall-mountable eyewash station holds two 500 ml HypaClens eyewash bottles.

- Integrated mirror allows for self-administration of eyewash
- Compact design of the eyewash station makes it ideal for any work place with low risks

WxDxH (mm): 250x60x300

Station is supplied with two bottles of eyewash solution. Wall fixings are not included. Refills are available separately, please contact us for further information.

Description	Pk	Cat. No.	Price (£)
Eyewash station with 2x500 ml eyewash bottles	1	118-0283	9.85



DISPENSER FOR EYEWASH PODS
SAFETY FIRST AID

Wall-mounted eyewash pod dispenser with integrated mirror for easier self-administration.

- Clear instructions for use printed on front of cabinet
- Dust and dirt proof
- Will hold up to 30 pods (supplied empty)

Sterile pods (118-0113) need to be ordered separately.

Description	Pk	Cat. No.	Price (£)
Dispenser without pods	1	118-0116	81.70

Description	Pk	Cat. No.	Price (£)
Sterile pods			
Eye wash pods 20 ml	25	118-0113	20.24

EYEWASH STATION
CEDERROTH



Wall-mountable eyewash station with two 500 ml bottles which open automatically when they are twisted out of their holders. The solution works to neutralise eye pH, i.e. it has a neutralising effect on any alkali or acid splashes, giving a quicker result than a normal sodium chloride solution.

- Contains Salvequick plaster dispenser (incl. 40 sterile fabric and 45 sterile plastic plasters), eyewash instructions and a key
- Features extra space for other accessories, e.g. Bloodstopper dressings, protective glasses or gloves
- Transparent door protects the products against dust and dirt and makes it easy to see when a refill is needed

WxDxH: 290x120x560 mm

Rinsing time: ~1,5 minutes

Shelf life: 4,5 years

The eyewash bottles are included. The Salvequick plaster dispenser is included as well but can also be ordered separately for refilling.

Description	Pk	Cat. No.	Price (£)
Eyewash station with two 500 ml bottles and plaster dispenser	1	118-0277	175.89

Description	Pk	Cat. No.	Price (£)
Plaster dispenser, Salvequick			
Salvequick plaster dispenser, incl. 40 sterile fabric (6444CAP) and 45 sterile plastic plasters (6036CAP)	1	118-0159	23.12

BURN GEL DRESSINGS, WATER-JEL®
SAFETY FIRST AID



These burn dressings provide fast, one-step relief for emergency first aid when someone has been burned. The dressing helps to stop burn progression and cools the skin, both relieving pain and protecting against airborne contamination. Dressings are made with a scientifically formulated cooling gel, utilising medical-grade non woven pads to deliver effective relief and healing for burns.

- Non adherent dressings: will not stick to burn injuries
- Dressings are soaked in a water-based/soluble, bacteriostatic and biodegradable gel
- Sterilised to ensure a contamination-free atmosphere for emergency treatment of burns
- Dressings can be applied directly to the burn without the need for pre-cooling allowing for fast and effective treatment of the burn injury
- Each dressing has a Total Body Surface Area (TBSA) icon that indicates approximate total body surface area covered

Shelf life: Five years.

Description	Pk	Cat. No.	Price (£)
Burn gel dressing, 100x400 mm	1	118-0553	18.36

PLASTER DISPENSER, SALVEQUICK
CEDERROTH

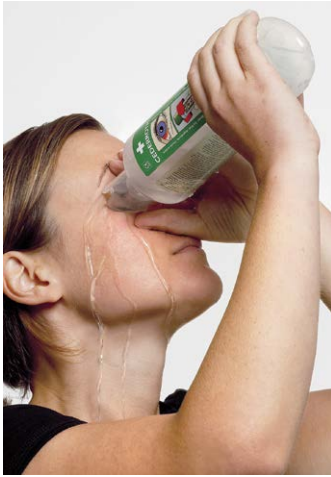


This dispenser for adhesive bandages (plasters) keeps the plasters clean and dry until time of use. When a plaster is needed it can easily be pulled out and applied on the wound with one hand.

- Dispenser also functions as an anti-theft system
- Each plaster is sterile and individually wrapped
- Refills are locked, which prevents waste
- Quick and easy to refill with a special key
- Transparent lid protects against dust

The dispenser is supplied with 40 fabric plasters and 45 plastic plasters. There are two different sizes of plasters in each refill: 72x19mm and 72x25mm. The plasters are supplied with or without additional protective paper cap applied on each plaster.

Description	WxDxH (mm)	Pk	Cat. No.	Price (£)
Salvequick plaster dispenser, incl. 40 sterile fabric (6444CAP) and 45 sterile plastic plasters (6036CAP)	230x55x120	1	118-0159	23.12



PERSONAL EYEWASH
CEDERROTH

Sterile, buffered, isotonic sodium chloride solution for rinsing eyes following an accident. Available as a single-use, pocket version (235 ml) or wall mounted (500 ml). The bottle opens automatically when twisted out of the wall bracket, and must therefore, be used immediately.

- Quick and easy to open
- Eye cup protected from dust
- Generous flow of fluid for effective rinsing - the eye cup on the bottle channels the fluid to the eye, avoiding unnecessary spills
- Neutralises the pH value

Expiry date: 4 years if container not opened

* Wall bracket for 500ml bottle can be ordered separately (118-0001)

Description	Pk	Cat. No.	Price (£)
Eyewash solution, sterile, 500 ml, twin pack	2	118-0153	32.59



118-0119

FIRST-AID KITS
SAFETY FIRST AID

The contents of the following first aid kits meet the requirements as specified in the HSE Approved Code of Practice. The code of practice states 'An employer should make an assessment of the first aid needs appropriate to the circumstance of each workplace'. To assist in selecting the appropriate kit, employee ratios are given as guidance provided by the British Healthcare Trade Association.

All kits are supplied with a first aid guidance leaflet.

Model	Contents
Statutory first aid kits – low risk	
Standard (11 - 20 persons)	40 x Waterproof plasters, sterile 10 x individually wrapped wipes 4 x eye pads with bandages, non woven 6 x triangular bandages, non woven 12 x Safety pins 9 x sterile dressing, medium size 3 x sterile dressing, large size 2 pairs of disposable examination gloves 1 wall bracket
Standard (21 - 50 persons)	60 x Waterproof plasters, sterile 20 x individually wrapped wipes 6 x eye pads with bandages, non woven 8 x triangular bandages, non woven 12 x Safety pins 12 x sterile dressing, medium size 4 x sterile dressing, large size 3 pairs of disposable examination gloves 1 wall bracket

Description	Pk	Cat. No.	Price (£)
Statutory first aid kits – low risk			
Medium first aid kit, 11 - 20 people	1 KIT	118-0122	53.05
Large first aid kit, 21 - 50 people	1 KIT	118-0130	53.97



RECYCLING SOLUTION FOR PROTECTIVE EYEWEAR, ZERO WASTE BOX™ TERRACYCLE

A Zero Waste Box™ is a complete and convenient solution which includes the storage, shipping and recycling of a particular type of waste that isn't currently recycled through local councils or traditional recycling facilities.

- Reduce the amount of waste that you send to landfill or incinerate
- Recycle the non recyclable and reduce your carbon footprint
- Improving your organisation's sustainability can boost your corporate image and improve employee engagement and satisfaction

Use this Zero Waste Box™ to recycle: Safety glasses, face shields and visors.

Do not send in :

- Other protective equipment
- Medical waste. This includes material contaminated with blood, bodily fluids and waste which should be collected in a hazardous clinical waste bin
- Hazardous waste (sharp, flammable, reactive, corrosive, ignitable, toxic, infectious or pathogenic) which presents a danger to the environment or to people
- Batteries, pressurised canisters, broken glass

How it works:

- Order - Select a Zero Waste Box™ based on what and how much you would like to recycle.

- Collect - Fill your box with the accepted waste and seal the box with adhesive tape.
- Ship - Using the pre-paid UPS shipping label affixed to the back of your box, send your filled box to TerraCycle® for recycling. UPS requires a minimum of 24 hours' notice and does pick ups Monday to Friday between 9 am and 5 pm. Pick-ups can be arranged online or by telephone. All shipments are carbon-neutral, meaning the carbon emissions released during transport will be offset.
- Reorder - Continue to recycle and reorder a new Zero Waste Box™. Your collected waste will find a second life as recycled materials, reducing the need to extract virgin materials and depleting resources.

Everything collected through the Zero Waste Box™ system is sorted and processed into raw materials that can be reused instead of being sent to landfill.

Do not send in any item that has come in contact with substances classified as hazardous waste e.g., sharp, flammable, reactive, acidic, poisonous, corrosive, ignitable, toxic, infectious or pathogenic or material contaminated with blood which presents a danger to the environment, or to people.

Do not send in medical waste. This includes material contaminated with blood or bodily fluids and waste that originates from health care facilities, hospitals, home care, physicians' offices, dental offices, blood banks, veterinary clinics, etc.

Environmentally preferable attribute	Waste Reducing		
Description	Pk	Cat. No.	Price (£)
Disposal box for protective eyewear, medium	1	129-2419	145.43



RECYCLING SOLUTION FOR DISPOSABLE FACEMASKS, ZERO WASTE BOX™
TERRACYCLE

A Zero Waste Box™ is a complete and convenient solution which includes the storage, shipping and recycling of a particular type of waste that isn't currently recycled through local councils or traditional recycling facilities.

- Reduce the amount of waste that you send to landfill or incinerate
- Recycle the non recyclable and reduce your carbon footprint
- Improving your organisation's sustainability can boost your corporate image and improve employee engagement and satisfaction

Use this Zero Waste Box™ to recycle: Non-woven disposable face masks, plastic face shields and visors, 3-ply surgical masks and dust masks. We accept all types of disposable face masks made from plastic, such as dust masks, FFP2 (or so-called N95), FFP3 and surgical masks (as long as they don't come from a medical environment). Please do not include fabric, homemade or paper masks, ear plugs, gloves, eyewear, respirators, hard hats or other types of protective garments..

How it works:

- Order - Select a Zero Waste Box™ based on what and how much you would like to recycle.
- Collect - Fill your box with the accepted waste and seal the box with adhesive tape.
- Ship - Using the pre-paid UPS shipping label affixed to the back of your box, send your filled box to TerraCycle®

for recycling. UPS requires a minimum of 24 hours' notice and does pick ups Monday to Friday between 9 am and 5 pm. Pick-ups can be arranged online or by telephone. All shipments are carbon-neutral, meaning the carbon emissions released during transport will be offset.

- Reorder - Continue to recycle and reorder a new Zero Waste Box™. Your collected waste will find a second life as recycled materials, reducing the need to extract virgin materials and depleting resources.

Everything collected through the Zero Waste Box™ system is sorted and processed into raw materials that can be reused instead of being sent to landfill.

Do not send in any item that has come in contact with substances classified as hazardous waste e.g., sharp, flammable, reactive, acidic, poisonous, corrosive, ignitable, toxic, infectious or pathogenic or material contaminated with blood which presents a danger to the environment, or to people.

Do not send in medical waste. This includes material contaminated with blood or bodily fluids and waste that originates from health care facilities, hospitals, home care, physicians' offices, dental offices, blood banks, veterinary clinics, etc.

Environmentally preferable attribute		Waste Reducing			
Description	Capacity	WxDxH (mm)	Pk	Cat. No.	Price (£)
Disposal box for disposable face masks, medium	78 L	305x305x840	1	129-2405	142.50



RECYCLING SOLUTION FOR DISPOSABLE GLOVES, ZERO WASTE BOX™
TERRACYCLE

A Zero Waste Box™ is a complete and convenient solution which includes the storage, shipping and recycling of a particular type of waste that isn't currently recycled through local councils or traditional recycling facilities.

- Reduce the amount of waste that you send to landfill or incinerate
- Recycle the non recyclable and reduce your carbon footprint
- Improving your organisation's sustainability can boost your corporate image and improve employee engagement and satisfaction

Use this Zero Waste Box™ to recycle: Vinyl, nitrile, and latex gloves. Please do not include gloves that are contaminated with materials considered hazardous or dangerous. Please do not include protective masks, disposable garments, gloves, eyewear, ear plugs, respirators and hard hats.

How it works:

- Order - Select a Zero Waste Box™ based on what and how much you would like to recycle.
- Collect - Fill your box with the accepted waste and seal the box with adhesive tape.
- Ship - Using the pre-paid UPS shipping label affixed to the back of your box, send your filled box to TerraCycle® for recycling. UPS requires a minimum of 24 hours' notice

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Do not send in medical waste. This includes material contaminated with blood or bodily fluids and waste that originates from health care facilities, hospitals, home care, physicians' offices, dental offices, blood banks, veterinary clinics, etc.

Environmentally preferable attribute		Waste Reducing			
Description	Capacity	W×D×H (mm)	Pk	Cat. No.	Price (£)
Disposal box for disposable gloves, medium	78 L	305×305×840	1	129-2397	154.85



Through our Environmentally Preferable Products (EPP) program we can provide greater transparency to our customers, helping them make more informed and sustainable purchasing decisions. Currently, we offer over 23,000 different environmentally preferable products for our customers around the globe.

Grounded in collaboration and driven by our customer relationships, our approach to innovation enables us to cultivate Science for Goodness by building a more sustainable future with smart solutions.

As a global industry leader, we have a responsibility to deliver long-term value to our associates, customers, suppliers, shareholders, and communities. Our Science for Goodness sustainability platform embeds sustainability throughout our business, ensuring our everyday actions generate a positive impact.



We are led by our mission to set science in motion to create a better world, and our Science for Goodness sustainability platform serves as a lever to help bring this purpose to life.

LEARN MORE:

vwr.com | Sustainable solutions
avantorsciences.com | Avantor Sustainability Reports

RightCycle* - the first true recycling programme for Kimtech™ nitrile gloves and garments

From now on your used, uncontaminated Kimtech™ nitrile gloves and garments are no longer waste but can be recycled with the RightCycle* programme from Kimberly-Clark Professional™

VWR introduces the RightCycle* programme from Kimberly-Clark Professional™. The first, true, 'end of life' recycling solution for uncontaminated nitrile gloves and garments. This innovative programme enables you to collect previously 'hard to recycle' items. Choose Kimtech™ and achieve your sustainability goals!

- Contact your local VWR representative for more information on Kimtech™ products and the RightCycle programme also how to implement it into your organization
- As a Kimtech™ customer you can sign up for RightCycle*.
- All you need to get started are collection boxes and a pallet, stickers and signs for the collection boxes and a bulk bag for the pallet will be provided.
- Once the bulk bag is full, email or phone to arrange return shipment.

What's the cost of sustainability?



- You will have to pay for the transport of the pallet to the closest warehouse of our recycling partner but storing and recycling which constitute the majority of the programme costs will be paid by Kimberly-Clark Professional™.
- The collected garments and gloves will be recycled into new eco-friendly products

NOTE: Service is currently available in UK, Ireland, Germany, Austria, Belgium, Spain and France.

Learn more...



WASTE DISPOSAL BOXES, BIO-BIN®
ECONIX

These U.N. approved, paper-based containers provide a safe and innovative way to dispose all kinds of waste.

- Space efficient fold-flat design with easy assembly
- Carbon footprint reduction
- Ideal for use in labs, wards and for community health

The 1 litre Bio-bin® is ideally suited for use in the field (e.g. community nursing) or for private first aid providers. It is the ideal size to be used in laboratories where limited space is available, such as inside fume cupboards.

The 2 litre Bio-bin® has been designed to replace plastic waste containers for non sharp laboratory/hospital waste. Ideal for disposal of pipette tips in the lab or for general ward and community waste.

The 5 litre Bio-bin® is ideal for bench top use in laboratories, as well as in wards and theatres. The bin comes folded flat which makes a significant space saving in storage and also makes the bin perfect for use in community nursing.

The Loop Bio-bin® was designed for disposal of single-use implements, such as loops and swabs in labs and non sharp surgical instruments, such as nippers and scissors used both in wards and in community nursing.

Description	Capacity (ml)	WxDxH ext. (mm)	WxDxH int. (mm)	Colour	Pk	Cat. No.	Price (£)
1 litre Bio-bin®							
Safe disposal box for infectious waste	1000	105x105x253	99x99x135	Yellow	20	119-0467	47.02
2 litre Bio-bin®							
Safe disposal box for infectious waste	2000	160x160x257	160x160x100	Yellow	20	119-0466	64.27
5 litre Bio-bin®							
Safe disposal box for infectious waste	5000	183x183x371	175x175x215	Yellow	20	119-0465	57.50
Loop Bio-bin®							
Safe disposal box for infectious waste	2500	110x230x243	110x230x120	Yellow	100	119-0175	177.02



M-stand for 5 and 2 L

M STAND FOR BIO-BIN® BOXES
ECONIX

These stainless steel stands were designed to allow the 2, 5 and 30 Litre Bio-bin® boxes to tilt at approximately 15 degrees to allow easy filling for tall thin items e.g. pipettes.

- Allow the user to see the contents easily while helping to prevent overfilling and also 'wigwagging' of items
- Small stand for 2 and 5 L boxes is ideal for use on work benches
- Larger 30 L M stand is perfect for floor use

Description	Pk	Cat. No.	Price (£)
M stand for 2 and 5 L Bio-bin® boxes, stainless steel, for benchtop use	10	119-0468	200.70

New Product!



M210_packaging

LABEL PRINTER, M210
BRADY

The M210 Portable Label Printer is an all-in-one labeller for voice/datacom, electrical and general industrial teams. With label materials designed specifically for harsh environments, the M210 printer can quickly and easily create clear labels that stay stuck for years - despite extreme temperatures and curved or highly textured surfaces.

- Monocolour
- Engineered long lasting material quality
- Prints durable true-sized 6 to 19 mm wide identification to maximise amount of data
- Adjust the length of the labels using the high performance continuous material
- Ergonomic cutter and label grabber, holding the label after cutting
- Easy to use: ABC keypad, graphics library, hot keys and menu functions for fast label creation
- Smart Cell Technology for automatic label setup and automatic formatting
- 2 year warranty

Languages available include Croatian; Czech; Danish; Dutch; English(US); Estonian; Finnish; French; German; Hungarian; Italian; Norwegian(Bokmål); Polish; Portuguese; Romanian; Slovak; Slovenian; Spanish (universal); Swedish; Turkish.

Optional multifunctional accessory consists of magnet, flashlight, stand, belt loop and pole strap. 2 AAA batteries required (not included).

The 'carton pack' model ships in a carton pack with a quick start guide and an M21-750-499 label cartridge.

The kits ship in a hard case holding a M210 printer, a Li-ion battery, a EU or UK power cord, and a M21-750-499 label cartridge.

Label	Continuous and die-cut				
Print resolution	203 dpi				
Description	Print width	W×D×H (mm)	Pk	Cat. No.	Price (£)
M210 Label printer kit, UK plug	16,00 mm	114,30×63,50×241,30	1 KIT	116-0951	139.50



Label printer, BBP12-EU+U+cutter

LABEL PRINTER BBP™12
BRADY

The BBP™12 bench top label printer is a compact, reliable and affordable entry level printer to identify cables, components, products and laboratory samples for customers who require low volumes of various, quality identification labels. The printer can print on a multitude of materials in various sizes including nylon cloth, paper, polyester, polyimides, polyolefin, polypropylene, tamper evident materials, vinyl (also self-laminating), vinyl cloth, to produce labels, tags, cable markers, sleeves (both ladder and continuous).

- Accurate image printing, 300 dpi gives good print resolution
- Supports a multitude of materials from 10 to 112 mm wide
- Easy to use with intuitive software interface and full colour LCD display
- Can work in a network or stand-alone
- Print speed = 100 mm/sec
- Real time clock feature

The LAB-KIT comprises the BBP12 label printer with an unwinder, USB Cable, power cord, product CD, Quick Start Guide, a LabelMark Pro CD.

Description	Pk	Cat. No.	Price (£)
BBP™12 Desktop label printer, 300 dpi, English version with UK-plug	1	116-0606	437.22



Label printer, brady workstation LAB suite kit

LABEL PRINTERS WITH BRADY WORKSTATION LAB SUITE, BMP™ 51

BRADY

The BMP™ 51 Label Maker is a compact, versatile portable printer with built-in Bluetooth® technology for wireless printing.

- 300 dpi
- Mono colour
- Applications include cable and wire identification, datacom and audio, visual equipment labelling, electrical identification, general and industrial identification, laboratory identification, and panel identification

This label maker has a 300 dpi print head and can print professional, durable labels up to 38.10 mm wide. It prints on continuous and die-cut materials at a speed of 25.40 mm per second. With a built-in cutter, easy top-loading cartridges, and 3 different options for battery power, the BMP™51 Label Maker is a powerful printer for on-the-job label making. The BMP™51 has a full QWERTY keyboard, for stand alone operation. The BMP™51 Label Maker is ideal for electrical, datacom, facility/safety, product and panel manufacturing, and laboratory labelling applications. The BMP™51 comes with the Brady

Workstation Product & Wire Identification Software suite enabling you to immediately start designing professional labels. This suite combines frequently used software apps to create product & cable identification labels.

Materials supported include Freezerbondz Polyester; Heat-shrink Polyolefin Sleeve; Metallised Polyester; Nylon Cloth; Polyester; Polyethylene Tag; Polypropylene; Polypropylene Tag; Reflective Tape; Self-laminating Polyester; Self-laminating Vinyl; StainerBondz Polyester; Tamper-resistant Vinyl; Vinyl; Vinyl Cloth. Barcode type Code 39 and 128, other via software. Manual cut; Between labels or at end of print job; With label retention.

Languages: Danish; Dutch; English; Finnish; French; German; Italian; Norwegian (Bokmål); Portuguese; Spanish; Swedish.

This printer ships in a hard case with a Rechargeable Lithium Ion Battery, USB Cable, AC adaptor + EU or UK power cord, Product CD, Brady Printer Drivers CD, Quick Start Guide, a Bluetooth network card, a Brady Workstation Laboratory Identification Suite and an MC1-1000-422 cartridge.

Display	Monocolour LCD screen, 320x240 pixels
Interfaces	Bluetooth; Ethernet (optional); USB; WiFi
Memory	48 MB
Power supply	8 AA-Batterien; Akku; AC-Adapter
Print method	Thermotransfer
Resolution	300 dpi
Software	Compatible with Brady Workstation
Temperature range	5...40 °C (Operating)

Description	Print width	WxDxH (mm)	Weight (g)	Pk	Cat. No.	Price (£)
BMP51 Label Printer, UK with Brady Workstation LAB Suite	38,10 mm (max.)	155x255x90	5570	1	116-0950	458.23



121-0139



Economy spill kit, maintenance

ABSORBENTS - MATS, ROLLS AND SOCKS FOR CHEMICAL-BASED SPILLS
VWR, PART OF AVANTOR

VWR absorbents and spill containment products help keep your employees and work environment safe from unexpected spills, leaks, drips or other accidents.

- Absorbs a wide range of chemicals, including acids and caustics
- Chemically inert: Product does not degrade or cause a dangerous chemical reaction with the adsorbed liquid
- Green colour alerts that product is being used for hazardous liquids
- Green colour allows user to identify and separate hazardous waste for disposal, resulting in lower disposal costs
- Cannot be left outdoors as they will absorb water

For use with chemicals.

Colour: Green

ECONOMY SPILL KIT
VWR, PART OF AVANTOR

These economy spill kits combine absorbents and instructions in a space-saving container. They are ideal for workers on the go like truck drivers, field workers, etc.

- Improve worker productivity and efficiency
- Fast spill response
- Yellow PVC bag offers high visibility spill control storage
- Highly versatile, surfactant treated, fire resistance
- Water resistant, lightweight bag keeps sorbents dry

Brightly coloured absorbent, picks up a wide range of aggressive chemicals while remaining chemically inert. White absorbents pick up petroleum-based fluids, paints and non water soluble chemicals while repelling water - great for indoor and outdoor use. Grey absorbents pick up water-based, petroleum-based and non aggressive, chemical fluids.

Every kit is supplied with 25 pads (410x510 mm), 4 socks (Ø 76x1220 mm) and 1 instruction sheet.

Packed in a durable, see-through PVC bag with shoulder strap.

Description	Capacity (l)	LxW (mm)	Pk	Cat. No.	Price (£)
Absorbent pads for chemicals, green	136	510x410	200	121-0139	91.16

Description	Absorbency	WxDxH (mm)	Pk	Cat. No.	Price (£)
Economy spill kit, chemical	32 l	406,4x508,0x101,6	1	121-0178	68.96



Spill kaddie skh-cart chemical

SPILL KADDIE
BRADY

This is a compact wheeled spill kit for fast spill response or maintenance jobs - for chemicals and hazardous liquids.

- Double doors provide easy access to products
- Yellow in colour

Interior shelves and compartments keep sorbents organised. Cart protects sorbents against dirt, moisture and damage. Fits easily through narrow aisles and doorways. Wheels allow excellent mobility both indoors and outdoors.

Includes 1 double perforated roll (380x2200 mm), 2 socs (Ø 76x1220 mm), 1 soc (Ø 76x2440 mm), 6 pillows (250x250 mm), 1 pair of goggles, 1 pair of gloves, 2 disposal bags.

Description	Absorbency	Pk	Cat. No.	Price (£)
Spill kaddie, chemical	59 L	1 KIT	121-0198	511.04



Multi-layer adhesive floor mats, white

MULTI-LAYER ADHESIVE FLOOR MATS, ENVIROTACK™, PURESTEP VWR, PART OF AVANTOR

30- or 60-layer adhesive entrance mats manufactured from low density polyethylene. These mats control contamination by removing debris from the soles of shoes, and the wheels of transport containers. When one layer is dirty, simply remove by the numbered corner tab, leaving a fresh layer ready for use.

- Antimicrobial agent protects against the growth of bacteria and fungi
- Non slip, low profile, individually numbered layers
- Reduced maintenance and cleaning costs
- Contains GMO-free, renewable plant-based material that reduces CO2 emissions
- Adhesive mats are also recyclable after use

Colour: Clear, white, grey or blue.

LxW (mm)	Thickness	Colour	Pk	Cat. No.	Price (£)
Adhesive film mats, PureStep, 30 layers					
457x914	8 µm ±20%	Blue	8	115-0055	70.88
457x1143	8 µm ±20%	Blue	8	115-0061	84.98
660x1143	8 µm ±20%	Blue	8	115-0073	112.61



LAB COATS ADVANCED, SF, DISPOSABLE VWR, PART OF AVANTOR

VWR Advanced SF lab coats are manufactured from spunbonded polypropylene fabric coated with breathable polyethylene film.

- Tapered collar, inset sleeves, snap closure, elasticated cuffs and three pockets
- Durable fabric with good breathability and water transmission rate
- Significant fluid and particle barrier
- Particle shedding: Level II Helmke drum classification
- Soft, cloth-like fabric

Tested and manufactured in an ISO certified facility under stringent process controls. Lot-controlled and validated through independent laboratory testing.

Closure type	Press studs / snaps
Pockets	With pockets
Gender	Unisex
Garment application	Cleanroom, Laboratory

Colour	Clothing size	Pk	Cat. No.	Price (£)
White	S	25	113-1145	41.37
White	M	25	113-1146	41.37
White	L	25	113-1147	41.37
White	XL	25	113-1148	41.37
White	XXL	25	113-1149	45.67
White	3XL	25	113-1150	45.67

LAB MAT, SILICONE VWR, PART OF AVANTOR

The reusable, environmentally friendly lab mat is an economical solution to help keep bench tops clean and safe from stains, spills and wear. The Lab Mat is made from a durable FDA-approved silicone material that creates a stain resistant, washable working surface. It is chemically inert and does not react with most chemicals.



- Protect bench tops from hot items up to 200 °C
- Large anti-skid and noise-dampening working surface
- Lip design around the outer edge of the mat helps contain spillage
- Can be cleaned with standard disinfectants in a sink or dishwasher, allowing repeated use
- Mat can be rolled up for compact storage
- Autoclavable at 121 °C for 15 minutes

Can be used with centrifuges, vortex mixers, hot plates, stirrers, pipettes. Ideal for every type of laboratory and more specialised areas, such as cold rooms, cleanrooms, sterile suites and areas where high sterility is a requirement.

Thickness (mm)	Colour	LxW (mm)	Pk	Cat. No.	Price (£)
2	Purple	350x600	1	111-9200	28.89



DEUTERATED NMR SOLVENTS

VWR CHEMICALS

- Packed in 10, 25 and 100 ml glass bottles (500 ml and glass ampoules available on VWR.com)
- Packed also in 10 ml glass bottles with special septum caps (see codes ending in 0011)
- More than 99,9% purity, 99,8% deuteration degree, with and without TMS
- Very low water content
- Isotopic enrichment (FT NMR 400 MHz)(D) min. 99.80%

Description	Pack type	Pk	Cat. No.	Price (£)
Acetonitrile-[D ₃] (99.8% D) for NMR spectroscopy	Glass bottle with septum cap	10 ml	87155.0011	21.17
Chloroform-[D ₁] (99.8% D) for NMR spectroscopy	Glass bottle	100 ml	87153.0100	18.18
Deuterium oxide (99.96% D) for NMR spectroscopy	Glass bottle	25 ml	87156.0025	22.94
Dimethyl sulphoxide-[D ₆] (99.8% D) for NMR spectroscopy	Glass bottle	10 ml	87154.0010	11.20
Methanol-[D ₄] (99.8% D) for NMR spectroscopy	Glass bottle with septum cap	10 ml	87157.0011	20.94



ICP AND ICP-MS MULTI-ELEMENT STANDARDS, ARISTAR®

VWR CHEMICALS

Multi-element standards are directly traceable to NIST.

A Certificate of Analysis is delivered with each product including exact data on content, composition, traceability, date of release and minimum shelf life.

Contact us for 'customised' multi-element standards

Description	Pk	Cat. No.	Price (£)
Nitric acid 5%, ARISTAR® for calibration blank in ICP	500 ml	456484N	34.06
Multi-element calibration standard 2 in dil. nitric acid ARISTAR® for ICP-MS	100 ml	456502V	184.70
Tuning solution 1 in dil. nitric acid ARISTAR® for ICP-MS	100 ml	456532E	120.84
Interference check A in nitric acid 1% ARISTAR® for ICP-MS	100 ml	456552Y	271.49

Ask for your customised multi-element standard solution with your exact composition using the request form <https://av.cmd2.vwr.com/bin/public/fc/main?f=2811>



CHEMICAL LABORATORY AUXILIARIES

VWR CHEMICALS AND THERMO SCIENTIFIC

New Product

Description	Pack type	Pk	Cat. No.	Price (£)
Celite® Hyflo Super-cel®, filter aid, GPR RECTAPUR®	PP bucket	1 kg	22559.290	19.74
Silica gel, granules -6+12 mesh desiccant	Glass bottle for solids	1 kg	44387.A1	35.37



HIGH PURITY HPLC AND UHPLC CLASSICAL SOLVENTS

VWR CHEMICALS

- Complete range designed to meet analytical and quality control HPLC requirements
- High UV transmission
- Low residue on evaporation
- Excellent batch-to-batch reproducibility

Description	Pk	Cat. No.	Price (£)
n-Hexane ≥97%, HiPerSolv CHROMANORM® for HPLC	2,5 L	24575.320	15.53
Tetrahydrofuran ≥99.7% unstabilised, HiPerSolv CHROMANORM® for HPLC	2,5 L	28559.320	21.60
Ethyl acetate ≥99.8%, HiPerSolv CHROMANORM® for HPLC	2,5 L	83621.320	9.82
Water, HiPerSolv CHROMANORM® for LC-MS, suitable for UPLC/UHPLC instruments	2,5 L	83645.320	5.81
2-Propanol ≥99.8%, HiPerSolv CHROMANORM® for HPLC	2,5 L	20880.320	10.83
Dichloromethane ≥99.8% stabilised, HiPerSolv CHROMANORM® for HPLC	2,5 L	23373.320	8.58
Acetonitrile ≥99.9%, HiPerSolv CHROMANORM® for LC-MS, suitable for UPLC/UHPLC instruments	2,5 L	83640.320	21.66
Methanol ≥99.8%, HiPerSolv CHROMANORM® Reag. Ph. Eur., gradient grade for HPLC	2,5 L	20864.320	5.50
Acetonitrile, anhydrous (max. 0.003% H ₂ O) ≥99.95%, HiPerSolv CHROMANORM® Reag. Ph. Eur., Reag. USP, ACS, super gradient grade suitable for UPLC/UHPLC instruments	2,5 L	83639.320	16.50
Methanol ≥99.9% (by GC), HiPerSolv CHROMANORM® for LC-MS, suitable for UPLC/UHPLC instruments	2,5 L	83638.320	7.03
Water, HiPerSolv CHROMANORM® for HPLC	2,5 L	23595.328	5.25



ANHYDROUS SOLVENTS FOR ORGANIC SYNTHESIS
VWR CHEMICALS AND THERMO SCIENTIFIC

Ultra dry solvents are very important, mainly in organic synthesis, Grignard reactions and ADN /ARN synthesis. These products are supplied in bottles fitted with a silicone/ PTFE lined septum cap featuring six separate puncture points. This allows the repeated withdrawal of solvent via a syringe whilst retaining the anhydrous quality of the product. The range has been extended to include solvents in 250 ml septum sealed glass bottles. This guarantees low moisture level, very low water content and high chemical purity every time.

Description	Pack type	Pk	Cat. No.	Price (£)
Acetone, anhydrous (max. 0.01% H ₂ O) ≥99.8%	Glass bottle with septum cap	250 ml	83683.230	19.86
Diethyl ether, anhydrous (max. 0.005% H ₂ O) ≥99.8% stabilised	Glass bottle with septum cap	250 ml	83671.230	27.19
Ethanol absolute, anhydrous (max. 0.003% H ₂ O) ≥99.8%	Glass bottle	1 L	83672.290	38.61
Ethanol absolute, anhydrous (max. 0.003% H ₂ O) ≥99.8%, duty paid	Glass bottle	1 L	83672.290DP*	38.61
Dimethyl sulphoxide, anhydrous (max. 0.005% H ₂ O) ≥99.8%	Glass bottle with septum cap	250 ml	83673.230	36.52
1,4-Dioxane, anhydrous (max. 0.003% H ₂ O) ≥99.8% stabilised	Glass bottle with septum cap	250 ml	83674.230	42.68
Pyridine, anhydrous (max. 0.003% H ₂ O) ≥99.8%	Glass bottle with septum cap	250 ml	83684.230	30.14
Toluene, anhydrous (max. 0.002% H ₂ O) ≥99.8%	Glass bottle with septum cap	250 ml	83680.230	21.30
N,N-Dimethylformamide, anhydrous (max. 0.005% H ₂ O) ≥99.8%	Glass bottle	1 L	83675.290	39.69
Tetrahydrofuran, anhydrous (max. 0.003% H ₂ O) ≥99.9% stabilised	Glass bottle with septum cap	1 L	83678.290	47.40
Dichloromethane, anhydrous (max. 0.001% H ₂ O) ≥99.8% stabilised	Glass bottle	1 L	83682.290	23.99
Methanol, anhydrous (max. 0.002% H ₂ O) ≥99.9%	Glass bottle	1 L	83679.290	31.25
N,N-Dimethylformamide, anhydrous ≥99.9% amine-free	Glass bottle	500 ml	43465.AP	26.50
Acetonitrile, anhydrous ≥99.8%	Glass bottle	250 ml	42311.AK	34.40

*WARNING: This alcohol is regulated, please contact VWR. Promotional price is without duty which will be calculated separately. For duty paid orders please add DP to the product code.



COMPOUNDS FOR ORGANIC SYNTHESIS
VWR CHEMICALS AND THERMO SCIENTIFIC

If you're creating new molecules in your university laboratory, VWR offers an extensive range of products to help you with your discoveries. Stock up on a variety of compounds for organic synthesis today.



Description	Pack type	Pk	Cat. No.	Price (£)
Triethylamine ≥99%, GPR RECTAPUR®	Glass bottle	1 L	85908.290	24.26
Tris(hydroxymethyl)aminomethane (TRIS, Trometamol) 99.8-100.5%, AnalaR® NORMAPUR® analytical reagent	Bucket (Plastic)	5 kg	103157P	151.15
Paraformaldehyde 16% (w/v) in aqueous solution methanol-free	Glass bottle	10 x 10 ml	43368.9M	65.87
Di-tert-butyl pyrocarbonate ≥97%	Glass bottle for solids	25 g	A14708.14	18.27
Ammonia 7 M in methanol	Glass bottle	100 ml	H30382.AE	71.65
Boron trifluoride - methanol complex 20% in methanol for synthesis	Glass bottle	500 ml	22007.263	24.82



BUFFER SOLUTIONS, 20 °C AVS TITRINORM
VWR CHEMICALS

- Solutions prepared from AnalaR® NORMAPUR® grade analytical reagents
- Reference temperature 20 °C
- True analytical value on the label to an accuracy of ±0,02 pH units (pH 1,00 to 11,00); ±0,05 for pH 12,00 buffer
- Traceable to SRM from NIST
- Batch number and packing date for traceability
- Certificate of Analysis available at vwr.com



pH value	pH accuracy	Accreditation	pH buffer type	Colour	Pack type	Pk	Cat. No.	Price (£)
Buffer solutions in bottles								
4,00	±0,02	ISO 17034	Phthalate	Red	Plastic bottle	1 L	32044.292	3.85
7,00	±0,02	ISO 17034	Phosphate	Green	Plastic bottle	1 L	32045.295	3.71
9,00	±0,02	ISO 17034	Borate	Blue	Plastic bottle	1 L	32046.298	4.08
10,00	±0,02	ISO 17034	Borate	Yellow	Plastic bottle	1 L	85680.295	7.83



ACIDS GENERAL PURPOSE (ACS), SPECIALITY AND HIGH PURITY
VWR CHEMICALS

Stock up on general purpose and speciality acids that every laboratory needs

Description	Pack type	Pk	Cat.No.	Price (£)
Nitric acid 68%, GPR RECTAPUR®	Plastic bottle	2,5 L	20413.420	4.21
Hydrochloric acid 35%, GPR RECTAPUR®	Plastic bottle	2,5 L	20248.330	8.13
Acetic acid 99-100%, GPR RECTAPUR®	Plastic bottle	2,5 L	20103.330	13.16
Trifluoroacetic acid 99.01-101.0% (by titrimetric analysis), GPR RECTAPUR®	Glass bottle	1 L	85903.290	69.17
Sulphuric acid 95-97%, GPR RECTAPUR®	Plastic bottle	2,5 L	20690.330	7.53
Formic acid ≥98%, GPR RECTAPUR®	Glass bottle SAFEBREAK	2,5 L	20320.320	21.83
Hydrobromic acid 47%, NORMATOM®, Ultrapure for trace metal analysis	Plastic bottle	500 ml	85032.270	486.16



DETERGENTS AND CLEANING AGENTS, LABWASH® PREMIUM
VWR CHEMICALS

- Residue-free laboratory glassware cleaner
- Excellent cleaning power at low dosage levels
- NTA-free (no nitrilotriacetic acid)
- Protects the environment, active ingredients are biodegradable
- Acid-rinse concentrates available to neutralise alkaline cleaners

Description	Temp. range (°C)	pH value	Pk	Cat. No.	Price (£)
LABWASH® Premium for manual cleaning - immersion cleaning					
LABWASH® Premium Classic, mildly alkaline concentrate for manual cleaning of laboratory glassware	20...85	12,2	10 L	84545.410	36.25
LABWASH® Premium for automated cleaning - laboratory washing machines					
LABWASH® Premium Alkamatic PF, alkaline, phosphate-free, chlorine-free, liquid cleaning concentrate for washing machines for heavy contamination	10...95	11,6	10 L	84550.410	26.49
LABWASH® Premium Alkamatic LA, highly alkaline, intensive cleaner for laboratory washing machines	20...95	12,5	5 L	84556.360	16.53
LABWASH® Premium Acidrinse C, phosphate-free neutraliser for washing machines	40...85	2,7	10 L	84551.410	31.17
LABWASH® Premium Easyrinse, acidic, ecological rinsing concentrate with shiny effect	0...60	2,2	5 L	84553.360	15.38



INORGANIC COMPOUNDS, SALTS AND BASES
VWR CHEMICALS AND MERCK

- For general laboratory work
- Performance at an affordable price

Description	Pack type	Pk	Cat. No.	Price (£)
Sodium tetrahydroborate fine-granular for synthesis, Sigma-Aldrich®	Glass bottle	25 g	8.06373.0025	20.20
Sodium hydrogen carbonate ≥99%, GPR RECTAPUR®	Plastic bottle for solids	1 kg	27776.296	8.77
Potassium carbonate ≥98%, GPR RECTAPUR®	Plastic bottle for solids	1 kg	26724.291	13.53
Sodium hydroxide ≥98%, pellets, GPR RECTAPUR®	Plastic bottle for solids	500 g	28245.265	5.25



GENERAL SOLVENTS
VWR CHEMICALS

- Stock up on general purpose solvents
- Performance at an affordable price



Description	Pack type	Pk	Cat. No.	Price (£)
Acetone ≥99.5%, GPR RECTAPUR®	Plastic bottle	5 L	20065.362	8.22
Cyclopentyl methyl ether (CPME) ≥99.9% stabilised, GPR RECTAPUR®	Glass bottle	1 L	84565.290	32.44



INDICATOR STRIPS, NON BLEEDING
VWR CHEMICALS

Non bleeding special indicator dyes that are covalently bound onto the reagent paper and then adhered to plastic strips.

Description	pH range	Pk	Cat. No.	Price (£)
Indicator strips, non bleeding	0 - 14	100	315082P	5.12



590-0036

SAFETY CAPS
VWR, PART OF AVANTOR

Extract solvents or mobile phases safely from reservoirs and bottles, without being exposed to hazardous gases and solvent vapours. High quality materials (PTFE and PP) ensure maximum safety for your laboratory staff and environment.

- Recommended for HPLC systems
- Chemically resistant against aggressive organic solvents
- Air valve should be changed every 6 months for maximum safety

Supplied with an air valve/filter and corresponding fitting.

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DETAILS ON ALL OUR
CHROMATOGRAPHY
PRODUCTS
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Description	Thread	Connector	Pk	Cat. No.	Price (£)
Safety cap I, including 1 PFA fitting and air valve	GL 45	1x for tubing 2,3/3,2 mm OD	1	590-0036	40.96
Safety cap II, including 2 PFA fittings and air valve	GL 45	2x for tubing 2,3/3,2 mm OD	1	590-0037	46.35
Safety cap III, including 3 PFA fittings and air valve	GL 45	3x for tubing 2,3/3,2 mm OD	1	590-0038	54.20



590-0043

SAFETY WASTE CAPS
VWR, PART OF AVANTOR

Collect your solvent waste safely without being exposed to solvent vapours or hazardous gases. High quality materials (PTFE, PP) ensure maximum safety for your laboratory staff and environment.

- Recommended for HPLC systems
- Chemically resistant against aggressive organic solvents
- Tubing connector for e.g. leak connection of diverse HPLC instruments (only for safety waste caps with tube connections)

Exhaust air filter needs to be ordered separately.



590-0044

Description	Thread	Connector	Pk	Cat. No.	Price (£)
Safety waste caps, standard					
Safety waste cap, including connector for exhaust filter	GL 45	3x for tubing 1,6/3,2 mm OD	1	590-0043	48.35
Safety waste caps with tube connections					
Safety waste cap, including connector for exhaust filter	GL 45	2x for tubing 1,6/3,2 mm OD, 1x for tubing 6,4 - 9 mm OD	1	590-0044	49.14
Safety waste cap, including connector for exhaust filter	S 55	2x for tubing 1,6/3,2 mm OD, 1x for tubing 6,4 - 9 mm OD	1	590-0045	59.38
Safety waste cap, including connector for exhaust filter	S 60/61	2x for tubing 1,6/3,2 mm OD, 1x for tubing 6,4 - 9 mm OD	1	590-0046	73.82



FILTER HOLDER, SOLVAC® PALL LABORATORY

Simplifies clean-up and degassing of mobile phase solvents and other solutions. The versatile design fits most HPLC bottles, flasks, and containers, and eliminates the added steps of washing flasks and transferring mobile phase solvent from flask to reservoir.

- Draws directly from HPLC solvent bottle. Less likely to spill aggressive solvents than glass funnels or disposable cups
- Patented magnetic seal is reliable and leak proof. Eliminates the possibility of membrane shifting or tearing which can occur with aluminium clamps or threaded holders

Filtration area	10,2 cm ²
Inlet/outlet connections	Tapered inlet accepts 3,2 - 6,4 mm ID tubing; outlet seals to bottles with openings 17,8 mm ID to 48,3 mm OD
Max. operating temperature	38 °C

Reusable, chemically resistant PP construction is resistant to common HPLC mobile phase solvents such as methanol, acetonitrile, and tetrahydrofuran.

Applications: Remove contaminating particulate from mobile phase or other solutions, de-gas mobile phase solvents and solutions, eliminate pour-and-wait filtration, remove microbial growth every 24 hours from aqueous buffer mobile phases.

Supplied with 610 mm feedline tubing, thumb clamp, sinker, vacuum port adapter, two membrane seal gaskets and two seal gaskets.

For Ø (mm)	Pk	Cat. No.	Price (£)
47	1	514-4001	280.44

TLC ALUMINIUM PLATES, SILICA, UNMODIFIED LAYERS VWR, PART OF AVANTOR

These TLC aluminium plates are suitable for easy and quick sample applications. They are flexible and can be cut to match different plate size requirements.

- High sample throughput in short time
- Pilot product for HPLC or Flash chromatography
- Suitable for screening tests

Indicator: Manganese activated zinc silica with green fluorescence for short wave UV (254 nm).

Binder: Stable in almost all organic solvents.

Particle size: 5 to 17 µm



Coating material	Plate size (mm)	Layer thickness (µm)	Pore size (Å)	Fluorescent indicator	Pk	Cat. No.	Price (£)
Silica gel	200×200	200	60	F254	25	551-0005	33.61
Silica gel	100×200	200	60	F254	20	551-0032	20.61
Silica gel	50×100	200	60	F254	50	551-0018	17.44

TLC GLASS PLATES, SILICA HP, UNMODIFIED LAYERS

VWR, PART OF AVANTOR

These TLC glass plates have an excellent separation efficiency due to an optimised particle size distribution.

- Specific dyeability and abrasion resistance based on an optimised binder system
- Good wettability for exact colorisation results, even with 100% aqueous detection reagents

Specific surface (BET): ~500 m²/g

Specific pore volume: 0,75 ml/g

Particle size: 5 - 17 µm

Description	Coating material	Plate size (mm)	Layer thickness (µm)	Pore size (Å)	Fluorescent indicator	Wettable	Pk	Cat. No.	Price (£)
Silica HP	Silica gel	200x200	250	60	F254	Yes	25	551-0007	54.29



ACE®, HPLC/UHPLC columns



HPLC/UHPLC COLUMNS, AVANTOR® ACE® ADVANCED METHOD DEVELOPMENT KITS, 2MM, 3MM AND 5MM OPTIONS
AVANTOR®

Avantor® ACE® Method Development Kits (MDK) are designed to maximise selectivity, offering a powerful and reliable approach to UHPLC/HPLC method development. Based upon an ultra-inert, high efficiency silica, Avantor® ACE® phases incorporate the latest developments in LC stationary phase design, providing chromatographers with more choices for alternative selectivity, without compromising stability or robustness.

- Porous, solid core, HILIC and biomolecule kit options
- Wide range of particle sizes (1.7 µm, 2µm, 3µm and 5 µm options) and complementary phases
- Analytical IDs in a wide range of column lengths
- Ideal for method development
- Compatible with all manufacturers' LC systems

A complete range of kits for all requirements is available, including porous, solid core, HILIC and bioanalytical 300 Å column kits. These kits group together the essential column chemistries for method development and are available in a wide range of column formats.

Maximum recommended pH: 2,0 to 8,0

Max. pressure: 1000 bar

Avantor® ACE® Advanced Method Development Kits contain Avantor® ACE® C18, Avantor® ACE® C18-AR and Avantor® ACE® C18-PFP stainless steel columns.

Description	Column format	Pore size (Å)	Particle size (µm)	Int.ØxL (mm)	Pk	Cat. No.	Price (£)
Advanced MDK, C18, C18-AR and C18-PFP	Method development kit	100	2	2,1x50	1 KIT	MDKA-2-0502U	511.00
Advanced MDK, C18, C18-AR and C18-PFP	Method development kit	100	2	2,1x100	1 KIT	MDKA-2-1002U	566.00
Advanced MDK, C18, C18-AR and C18-PFP	Method development kit	100	2	2,1x150	1 KIT	MDKA-2-1502U	604.00
Advanced MDK, C18, C18-AR and C18-PFP	Method development kit	100	3	4,6x100	1 KIT	MDKA-3-1046U	536.00
Advanced MDK, C18, C18-AR and C18-PFP	Method development kit	100	3	4,6x150	1 KIT	MDKA-3-1546U	573.00
Advanced MDK, C18, C18-AR and C18-PFP	Method development kit	100	5	4,6x100	1 KIT	MDKA-5-1046U	511.00
Advanced MDK, C18, C18-AR and C18-PFP	Method development kit	100	5	4,6x150	1 KIT	MDKA-5-1546U	548.00
Advanced MDK, C18, C18-AR and C18-PFP	Method development kit	100	5	4,6x250	1 KIT	MDKA-5-2546U	573.00



ACE®, HPLC/UHPLC columns

HPLC COLUMNS, AVANTOR® ACE® BIOANALYTICAL 300 Å METHOD DEVELOPMENT KITS, 2MM, 3MM AND 5MM OPTIONS AVANTOR®

Avantor® ACE® Method Development Kits (MDK) are designed to maximise selectivity, offering a powerful and reliable approach to UHPLC/HPLC method development. Based upon an ultra-inert, high efficiency silica, Avantor® ACE® phases incorporate the latest developments in LC stationary phase design, providing chromatographers with more choices for alternative selectivity, without compromising stability or robustness.

- Porous, solid core, HILIC and biomolecule kit options
- Wide range of particle sizes (3 µm and 5 µm) and complementary phases
- Analytical IDs in a wide range of column lengths
- Ideal for method development
- Compatible with all manufacturers' LC systems

A complete range of kits for all requirements is available, including porous, solid core, HILIC and bioanalytical 300 Å column kits. These kits group together the essential column chemistries for method development and are available in a wide range of column formats.

Avantor® ACE® Bioanalytical Method Development Kits contain Avantor® ACE® C18-300, Avantor® ACE® C4-300 and Avantor® ACE® Phenyl-300 stainless steel columns.

Max. pressure	275 bar
pH range	2,0 - 8,0

Description	Pore size (Å)	Particle size (µm)	Int.Ø×L (mm)	Pk	Cat. No.	Price (£)
Bioanalytical 300 Å MDK, C18-300, C4-300, Phenyl-300	300	3	4,6×100	1 KIT	MDKB-3-1046	571.00
Bioanalytical 300 Å MDK, C18-300, C4-300, Phenyl-300	300	3	4,6×150	1 KIT	MDKB-3-1546	573.00
Bioanalytical 300 Å MDK, C18-300, C4-300, Phenyl-300	300	5	4,6×100	1 KIT	MDKB-5-1046	544.00
Bioanalytical 300 Å MDK, C18-300, C4-300, Phenyl-300	300	5	4,6×150	1 KIT	MDKB-5-1546	548.00
Bioanalytical 300 Å MDK, C18-300, C4-300, Phenyl-300	300	5	4,6×250	1 KIT	MDKB-5-2546	573.00



ACE®, HPLC/UHPLC columns

HPLC/UHPLC COLUMNS, AVANTOR® ACE® EXTENDED METHOD DEVELOPMENT KITS, 2MM, 3MM AND 5MM OPTIONS AVANTOR®

Avantor® ACE® Method Development Kits (MDK) are designed to maximise selectivity, offering a powerful and reliable approach to UHPLC/HPLC method development. Based upon an ultra-inert, high efficiency silica, Avantor® ACE® phases incorporate the latest developments in LC stationary phase design, providing chromatographers with more choices for alternative selectivity, without compromising stability or robustness.

- Porous, solid core, HILIC and biomolecule kit options
- Wide range of particle sizes (1.7 µm, 2µm, 3µm and 5 µm options) and complementary phases
- Analytical IDs in a wide range of column lengths
- Ideal for method development
- Compatible with all manufacturers' LC systems

A complete range of kits for all requirements is available, including porous, solid core, HILIC and bioanalytical 300 Å column kits. These kits group together the essential column chemistries for method development and are available in a wide range of column formats.

Maximum recommended pH: 2,0 to 8,0 (1,5 to 11,5 for SuperC18)

Max. pressure: 1000 bar

Avantor® ACE® Extended Method Development Kits contain Avantor® ACE® SuperC18™, Avantor® ACE® C18-Amide and Avantor® ACE® CN-ES stainless steel columns.

Description	Column format	Pore size (Å)	Particle size (µm)	Int.Ø×L (mm)	Pk	Cat. No.	Price (£)
Extended MDK, SuperC18™, C18-Amide, CN-ES	Method development kit	90/100	2	2,1×50	1 KIT	MDKE-2-0502U	511.00
Extended MDK, SuperC18™, C18-Amide, CN-ES	Method development kit	90/100	2	2,1×100	1 KIT	MDKE-2-1002U	566.00
Extended MDK, SuperC18™, C18-Amide, CN-ES	Method development kit	90/100	2	2,1×150	1 KIT	MDKE-2-1502U	604.00
Extended MDK, SuperC18™, C18-Amide, CN-ES	Method development kit	90/100	3	4,6×100	1 KIT	MDKE-3-1046U	536.00
Extended MDK, SuperC18™, C18-Amide, CN-ES	Method development kit	90/100	3	4,6×150	1 KIT	MDKE-3-1546U	573.00
Extended MDK, SuperC18™, C18-Amide, CN-ES	Method development kit	90/100	5	4,6×100	1 KIT	MDKE-5-1046U	511.00
Extended MDK, SuperC18™, C18-Amide, CN-ES	Method development kit	90/100	5	4,6×150	1 KIT	MDKE-5-1546U	548.00
Extended MDK, SuperC18™, C18-Amide, CN-ES	Method development kit	90/100	5	4,6×250	1 KIT	MDKE-5-2546U	620.00



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SHORT THREAD VIALS, ND9
VWR, PART OF AVANTOR

Standard glass or plastic vials for GC and HPLC, micro-inserts, closures and kits. Can be used universally on almost all autosamplers, preferred type of vial for Waters and Agilent.

- Wide opening enables easy filling
- Closures with different types of septa can be supplied with differently coloured caps; blue cap also available with closed top
- Pre-cut closures for HPLC needles are available, where only the silicone is slitted, but the PTFE remains intact (no concentration changes; no contamination due to impurities extracted from the silicone)
- Synthetic material often used in Agilent red rubber/PTFE septa has been added to the product line (this is a softer material with less fragmentation than natural rubber/TEF)

Special short thread cap for LC-MS and GC-MS applications: One component closure, no bleeding, absolutely inert, tight, pierceable and chemical resistant like PTFE.

Kits include: 1,5 ml short thread vial (11,6x32 mm), short thread cap PP blue, red or transparent with 6 mm central hole and septum.

Type	Capacity (ml)	ØxH (mm)	Pk	Cat. No.	Price (£)
Short thread vials, ND9; 1000-Pack					
Clear glass with label and filling lines	1,50	11,6x32	1.000	548-0029A	119.35
Amber glass with label and filling lines	1,50	11,6x32	1.000	548-0030A	81.24

Type	Hardness	Septum	Thickness (mm)	Pk	Cat. No.	Price (£)
Short screw caps with central hole, 6 mm and septa, ND9						
PP blue	45° shore A	Red rubber/PTFE beige	1,0	1.000	548-0896A	105.11
PP blue	55° shore A	Silicone white/PTFE red	1,0	1.000	548-0085A	159.94
PP blue	55° shore A	Silicone white/PTFE blue, slitted	1,0	1.000	548-0088A	188.27



CRIMP NECK VIALS, ND11
VWR, PART OF AVANTOR

These vials are for use on instruments from the following manufacturers: Agilent, Carlo Erba, CTC, DANI, Fisons, Gerstel, Jasco, PerkinElmer, Shimadzu, Spark, Thermo Scientific, Varian, etc.

- Standard vials for GC and HPLC
- Vials with a barcode label, pre-cripped vials are also available
- Microlitre vials for sample preparation (reactions, concentrations) or as an alternative for conical micro-vials or crimp neck vials with inserts

TopSert vials are an alternative to glass vials with fused-in micro-inserts or micro-insert with plastic spring. The TopSert glass micro-insert is centred in the plastic mould and pressed firmly against the septa due to its slightly overlapping edge.

Kits include: 1,5 ml glass crimp neck vial (11,6x32 mm), aluminium crimp cap, clear lacquered with 5,5 mm central hole and septum.

Type	Capacity (ml)	ØxH	Pk	Cat. No.	Price (£)
Crimp neck vials, ND11; 1000-Pack					
Clear glass with label and filling lines, wide opening	1,50	11,6x32	1.000	548-0004A	84.70
Amber glass with label and filling lines, wide opening	1,50	11,6x32	1.000	548-0005A	66.15

Type	Hardness	Septum	Thickness (mm)	Pk	Cat. No.	Price (£)
Aluminium crimp caps, ND11 with central hole, 5,5 mm and septum						
Clear lacquered aluminium	60° shore A	Natural rubber red-orange/TEF transparent	1,0	1.000	548-0008A	68.92
Clear lacquered aluminium	45° shore A	Red rubber/PTFE beige	1,0	1.000	548-3272A	62.76
Clear lacquered aluminium	45° shore A	Silicone white/PTFE red	1,3	1.000	548-0009A	146.72

For FREE Technical Support Please Contact:
chromsupport@avantorsciences.com



548-0032

SHORT SCREW CAPS WITH CENTRAL HOLE, 6 MM AND SEPTA, ND9
VWR, PART OF AVANTOR

Type	Hardness	Septum	Thickness (mm)	Pk	Cat. No.	Price (£)
PP blue	45° shore A	Red rubber/PTFE beige	1,0	1.000	548-0896A	105.11
PP blue	55° shore A	Silicone white/PTFE red	1,0	1.000	548-0085A	159.94
PP blue	55° shore A	Silicone white/PTFE blue, slitted	1,0	1.000	548-0088A	188.27



548-0007

ALUMINIUM CRIMP CAPS, ND11 WITH CENTRAL HOLE, 5,5 MM AND SEPTUM
VWR, PART OF AVANTOR

Type	Hardness	Septum	Thickness (mm)	Pk	Cat. No.	Price (£)
Clear lacquered aluminium	60° shore A	Natural rubber red-orange/TEF transparent	1,0	1.000	548-0008A	68.92
Clear lacquered aluminium	45° shore A	Red rubber/PTFE beige	1,0	1.000	548-3272A	62.76
Clear lacquered aluminium	45° shore A	Silicone white/PTFE red	1,3	1.000	548-0009A	146.72



HEADSPACE CRIMP VIALS, ND20
VWR, PART OF AVANTOR

Clear and amber glass vials with a rounded or flat bottom, and volumes from 5 to 20 ml and closures. A rounded bottom vial is more sturdy and resistant to high pressure during the heating process. Flat bottom vials are more appropriate for certain instruments.

- Pressure-release safety caps with a broad range of different septa available
- Magnetic and magnetic bi-metal caps for CTC Combi PAL and Shimadzu AOC5000 autosamplers
- Caps with Pharma-Fix septa (butyl/PTFE) achieve the best sealing properties
- Due to the 1,2 mm wall thickness, these vials can withstand high internal pressures

* For vials with flat crimp neck.

** For vials with bevelled crimp neck.

Type	Capacity (ml)	Ø×H (mm)	Pk	Cat. No.	Price (£)
Headspace crimp vials, ND20					
Clear glass, rounded bottom (CTC PAL Varian, Gerstel, Atas, Shimadzu)	20,00	22,5×75,5	1.000	548-0151A	266.81

Type	Hardness	Septum	Thickness (mm)	Pk	Cat. No.	Price (£)
Magnetic crimp caps, ND20 with central hole and septa (CTC Combi PAL)						
Gold, central hole 8 mm	45° shore A	Silicone blue-transparent/PTFE transparent	3,0	1.000	548-0152A	383.18



MAGNETIC CRIMP CAPS, ND20 WITH CENTRAL HOLE AND SEPTA (CTC COMBI PAL)
VWR, PART OF AVANTOR

Type	Hardness	Septum	Thickness (mm)	Pk	Cat. No.	Price (£)
Gold, central hole 8 mm	45° shore A	Silicone blue-transparent/ PTFE transparent	3,0	1.000	548-0152A	383.18



HEADSPACE SCREW NECK VIALS WITH PRECISION THREAD, ND18
VWR, PART OF AVANTOR

Vials, closures, septa and kits.

- No risk of incorrectly sealed vials as is the case with crimping
- More convenient to close and open, especially as magnetic crimp caps are very hard to crimp
- Lower coring and protection for the needle due to thinner septa
- Universal use for headspace and SPME due to thinner septa
- Special pre-cut septa (silicone layer is slitted but PTFE remains intact) for safe penetration of the sensitive SPME phase with hardly any coring

Tested and approved by CTC for their Combi PAL (Gerstel, Atas, Agilent), also recommended by Agilent for their G1888A samplers, by Shimadzu for AOC5000 and for PerkinElmer TurboMatrix autosamplers (models after 1/9/2006).

Kits include 20 ml clear glass precision screw neck headspace vial (22,5x75,5 mm), magnetic screw cap silver with 8 mm central hole and septum.

Type	Capacity (ml)	ØxH (mm)	Pk	Cat. No.	Price (£)
Headspace screw neck vials with precision thread, ND18 (only suitable for magnetic caps)					
Clear glass (CTC PAL: Varian, Gerstel, Atas, Shimadzu, Agilent)	20,00	22,5x75,5	1.000	548-0248A	264.11

Type	Hardness	Septum	Thickness (mm)	Pk	Cat. No.	Price (£)
Magnetic screw caps, ND18 and septum, ND18						
Silver, central hole 8 mm	45° shore A	Silicone blue transparent/PTFE white	1,3	1.000	548-0543A	454.72



CRIMPERS AND DECAPPERS
VWR, PART OF AVANTOR

Manual crimping tools.

- Chemical resistant, hardened crimping jaws made of a special alloy
- Easy and convenient handling
- Adjustable crimping pressure

11, 13 and 20 mm crimpers are also available with adjustable crimping height.

Description	Pk	Cat. No.	Price (£)
Manual crimping tools			
Crimper for 11 mm aluminium caps	1	548-0071A	141.23
Crimper for 20 mm aluminium caps	1	548-0073A	141.23

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VWR® VIALS & CLOSURES

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Whatman Grade 1 Qualitative Filter Papers are the most widely used filter papers for routine laboratory applications, qualitative analytical separations, and clarifying liquids. They are the standard grade cellulose filter papers for medium flow rates.

- Qualitative analytical separations for precipitates such as lead sulfate, calcium oxalate (hot), and calcium carbonate
- Agricultural soil analysis and seed testing procedures
- Industrial food processing techniques to extract liquid or separate solid foodstuffs from associated liquid

Grade	Weight	Thickness	Particle retention	Filtration speed	Ash content
Plain filters					
1	87 g/m ²	0,18 mm	11 µm	150 s (Herzberg)	0,06%

Grade	Size (mm)	Pk	Cat. No.	Price (£)
Plain filters				
1	47	100	516-3104	5.03
1	70	100	512-1002	4.17
1	90	100	512-1003	4.61
1	110	100	512-1004	5.71
1	125	100	512-1005	7.38
1	150	100	512-1006	7.95
1	185	100	512-1007	12.44
1	240	100	516-0594	20.22



PHASE SEPARATING PAPER, GRADE 511
VWR, PART OF AVANTOR

Hydrophobic filter paper used for separation of aqueous solutions from organic solutions.

- Usable as a disposable separating funnel

Filtration speed	200 s (Herzberg)
Thickness	0,2 mm
Weight	85 g/m ²

Grade	Size (mm)	Pk	Cat. No.	Price (£)
511	90	100	516-0311	16.72
511	110	100	516-0312	25.12
511	125	100	516-0313	30.78
511	150	100	516-0314	41.05
511	185	100	516-0315	52.31



Syringe filter

Samples available on request

SYRINGE FILTERS

VWR, PART OF AVANTOR

- Non sterile syringe filters are excellent for HPLC applications
- Biosafe is according to Class VI plastics tests
- Available with nylon, PTFE, PVDF and RC membrane
- Each filter has a female Luer lock inlet and a male slip Luer outlet

Nylon and PTFE membranes are ideal for sample preparation and small volume chemical filtration.

RC and PTFE hydrophilic type offer the best chemical resistance for both aqueous solutions and solvents.

Manufactured under ISO 9001:2015 quality management.

Ø (mm)	Pore size (µm)	Membrane	Housing material	Sterility	Pk	Cat. No.	Price (£)
Nylon membrane							
25	0,45	Nylon	PP	Non sterile	100	514-1267	75.00
25	0,22	Nylon	PP	Non sterile	100	514-1268	75.00
PTFE membrane							
25	0,22	Hydrophilic PTFE	PP	Non sterile	100	514-1277	65.60
25	0,45	Hydrophilic PTFE	PP	Non sterile	100	514-1278	65.60
PVDF membrane							
30	0,45	PVDF	PP	Non sterile	100	514-1246	75.00
30	0,22	PVDF	PP	Non sterile	100	514-1248	75.00
RC membrane							
30	0,45	RC	PP	Non sterile	100	514-1240	75.00
30	0,22	RC	PP	Non sterile	100	514-1241	75.00

SAFETY WASH BOTTLES

VWR, PART OF AVANTOR



Safety wash bottle

Integrated safety vent cap eliminates dripping of vapours.

- Caution note for each chemical
- Coloured caps
- Ergonomic spray angle

Bottles are manufactured from virgin LDPE resin, and come supplied with a polypropylene cap moulded with an ergonomic spray angle. The coloured caps allow for easy identification. A fill line is provided for user reference.

Please read the caution note mentioned over each bottle as per guideline.

Imprint	Type	Capacity (ml)	Pk	Cat. No.	Price (£)
Safety wash bottles, wide neck, 500 ml					
Acetone	Natural bottle, wide neck, red cap	500	6	215-4304	12.25
Ethanol	Natural bottle, wide neck, white cap	500	6	215-4307	12.25
Isopropanol	Natural bottle, wide neck, yellow cap	500	6	215-4308	12.25
Methanol	Natural bottle, wide neck, green cap	500	6	215-4309	12.25
Unprinted, with inscription label	Natural bottle, wide neck, white cap	500	6	215-4313	12.25



SP BEL-ART BENCH-TOP BIOHAZARD BAGS

BEL-ART PRODUCTS, A PART OF SP

Bright red, autoclavable bags feature one long flap for easy opening. Printed with the biohazard symbol and sterilization indicator patch, they are made of High Molecular Weight, High-Density (HMHD) polyethylene.

- Use as a biohazard material handler: Small size allows the bag to be inverted over your hand to safely pick up waste
- Steam autoclavable at 121 °C

For a space-saving disposal unit in fume hoods or on bench tops, use with Poxygrid® Benchtop Biohazard Bag Holder (129-4948) and Cover (129-1475).

Pass ASTM 1922 tear resistance and ASTM 1709 dart impact tests.

Description	Pk	Cat. No.	Price (£)
Replacement parts			
Replacement wire frame for bag holder	1	129-4948	22.25

BENCH TOP BIOHAZARD BAG HOLDER KIT, SP BEL-ART POXYGRID®

BEL-ART PRODUCTS, A PART OF SP



Economical and convenient, this bench top disposal system is perfect for collecting pipette tips, microcentrifuge tubes, etc during daily use.

- Snug fitting polypropylene plastic cover helps hold the bag securely in place
- Reusable, can be cleaned by hand or in automated dish washers
- Autoclavable

The rectangular steel wire frame holds a 220x280 mm polyethylene bag which is coated in easy to clean, durable, orange colour epoxy.

Cover provides compliance with 29 CFR 1910.1030(d)(2)(xiii)(A), which requires a cover on any container used to store, transport, or ship biohazardous wastes.

Kit includes 100 bench top biohazard bags (129-4922); can also be used with Clavies autoclavable bags.

Description	WxDxH (mm)	Pk	Cat. No.	Price (£)
Replacement parts				
Replacement wire frame for bag holder	127x85x216	1	129-4948	22.25

CARBOYS, NARROW NECK, ROUND, WITH STOPCOCK AND SCREW CAP

VWR, PART OF AVANTOR



Round carboy with spigot group

LDPE translucent with purple screw caps. Use for storing and dispensing solutions and media. Round carboys feature an integrated shoulder handle. Graduated to identify the volume dispensed.

Ideal for high purity applications as they have high resistance to chemicals (e.g. widely used in ophthalmic product range, like eye droppers and nasal sprays)

Ideal resin for cold storage (down to -80 °C), working temperature -80 to +80 °C

Resistant to physical impact (will not break even if it falls down accidentally, whereas PP carboys may lead to cracking at negative temperatures)

Note: LDPE carboys are not autoclavable.

Resin meets US FDA 21 CFR, U SP Class VI.

Capacity (l)	Thread (mm)	Pk	Cat. No.	Price (£)
LDPE carboys				
5	53	1	216-1909	18.88
10	83	1	216-1731	29.00
20	83	1	216-1717	38.52
25	83	1	216-1899	44.82
50	83	1	216-1734	70.20



MEASURING CYLINDERS, TALL FORM, CLASS A, BOROSILICATE GLASS VWR, PART OF AVANTOR

Borosilicate 3.3 glass, class A, tall form.

- Calibrated to contain (TC, In)
- Hexagonal glass base with spout
- Blue graduations with ring marks at major graduations

DIN 12680

Batch number and batch certificate included.

Capacity (ml)	Division (ml)	Height (mm)	Tolerance (\pm ml)	Pk	Cat. No.	Price (£)
10	0,2	140	0,1	2	612-3833	5.04
25	0,5	170	0,25	2	612-3834	5.27
50	1	200	0,5	2	612-3835	5.63
100	1	260	0,5	2	612-3836	6.35
250	2	335	1	2	612-3837	11.15
500	5	390	2,5	2	612-3838	16.20
1000	10	470	5	1	612-3839	13.75
2000	20	570	10	1	612-3840	24.15



BEAKERS, LOW FORM VWR, PART OF AVANTOR

Borosilicate 3.3 glass, with spout.

- Very good chemical resistance
- High temperature resistance
- Autoclavable
- Volume graduations and labelling area

An economical alternative for a wide range of laboratory applications.

DIN 12331, ISO 3819

Capacity (ml)	Height (mm)	Ext. \varnothing (mm)	Pk	Cat. No.	Price (£)
25	50	34	10	213-1120	7.35
50	60	42	10	213-1121	7.20
100	70	50	10	213-1122	7.10
150	80	60	10	213-1123	8.48
250	95	70	10	213-1124	7.79
400	110	80	10	213-1125	9.25
600	125	90	10	213-1126	10.50
800	135	100	10	213-1127	12.50
1000	145	105	10	213-1128	13.75



Erlenmeyer flask, narrow neck

ERLENMEYER FLASKS VWR, PART OF AVANTOR

Borosilicate 3.3 glass, clear.

- Narrow, with beaded rim
- Very good chemical resistance
- High temperature resistance
- Minimal thermal expansion, giving relatively high resistance to temperature changes

The economical alternative for a wide range of laboratory applications. Flasks have flared rim with markings for approximate volume graduations and a white labelling area.

ISO 1773

Capacity	Height	\varnothing ext.	Neck \varnothing ext.	Pk	Cat. No.	Price (£)
25	75	42	22	10	214-0248	24.25
50	90	51	22	10	214-1130	8.85
100	105	64	22	10	214-1131	9.00
250	145	85	34	10	214-1132	8.42
500	180	105	34	10	214-1133	14.05
1000	220	131	42	10	214-1134	20.10
2000	280	166	50	6	214-0471	16.20
2000	280	153	69	6	214-0472	17.25



VOLUMETRIC FLASKS
VWR, PART OF AVANTOR

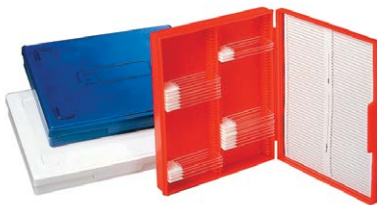
Borosilicate 3.3 glass, class A.

- PP white stopper
- Marks in white and inscriptions in blue enamel
- Calibrated to contain (TC, In)

DIN EN ISO 1042

Batch number and batch certificate included.

Capacity (ml)	NS	Tolerance (± ml)	Pk	Cat. No.	Price (£)
10	10/19	0,040	2	612-3740	4.95
20	10/19	0,040	2	612-3741	5.13
25	10/19	0,040	2	612-3742	5.27
50	12/21	0,060	2	612-3743	6.05
100	14/23	0,100	2	612-3744	6.89
200	14/23	0,150	2	612-3745	9.07
250	14/23	0,150	2	612-3746	9.01
500	19/26	0,250	2	612-3818	9.64
1000	24/29	0,400	1	612-3819	8.52



SLIDE BOXES
VWR, PART OF AVANTOR

Slide boxes for holding standard microscopy slides.

- Hinged lids held securely by a latch lock
- Stacking feet maximise stability when placed on top of one another
- Slide inventory sheet on the inside of the lid

Description	Colour	Material	W×D×H (mm)	No. of slides	Pk	Cat. No.	Price (£)
Slide boxes	Blue	PP	165×210×35	100	1	631-0736	2.90



MICROSCOPE SLIDES, SUPERFROST® BS 7011
VWR, PART OF AVANTOR

These microscope slides come with a light opaque coating in different colours.

- Resistant to commonly used solvents
- No scratching or sticking when stacked together
- Label areas on the top of the slide, for quick identification

Each colour codes different specimens at a glance according to urgency, processing or staining technique.

BS 7011

Description	Thickness (mm)	Colour	Pk	Cat. No.	Price (£)
Microscope slides (ground edges 90°)	0,95 - 1,05	White	50	631-0909	2.51
Microscope slides (ground edges 90°)	0,95 - 1,05	Blue	50	631-0910	2.99
Microscope slides (ground edges 90°)	0,95 - 1,05	Pink	50	631-0911	2.99
Microscope slides (ground edges 90°)	0,95 - 1,05	Yellow	50	631-0912	2.73
Microscope slides (ground edges 90°)	0,95 - 1,05	Green	50	631-0913	2.91



Premium product

Pipette controller cleanbench

PIPETTE CONTROLLER, ACCU-JET® S BRAND

The accu-jet® S pipette controller brings versatility and endurance to your team. It makes lab work simple, easy, and efficient, whether you work with cell cultures, in quality control or in a pharma lab.

- Precise control for accurate volume setting and delicate cell culture work
- Integrated rest position
- Ergonomic handgrip and perfectly balanced design
- Fills a 25 ml pipette at maximum motor speed in only 3 seconds
- Battery with intelligent charging technology and two colour charge indicators
- Four attractive colours

Precise pipetting of large and small volumes is easy due to single handed control of pipetting speed for fast, powerful aspiration, accurate meniscus setting, or precise dispensing of small volumes. If you need extra power or precision, motor speed is controlled on the fly with one hand, choose between gravity-delivery (for pipettes calibrated 'to deliver') or powered blow-out delivery (for pipettes calibrated 'to contain').

The packaging contains more than 90% recycled material, and manufacturing is powered from renewable sources.

Environmentally preferable attribute Sustainable Packaging, Low Manufacturing Impact

Description	Colour code	Pk	Cat. No.	Price (£)
accu-jet® S incl. universal AC adapter (100-240 V/50-60 Hz), nickel-metal hydride battery, wall support and 2 spare sterile 0,2 µm membrane filters	Anthracite	1	612-6817	270.60
accu-jet® S incl. universal AC adapter (100-240 V/50-60 Hz), nickel-metal hydride battery, wall support and 2 spare sterile 0,2 µm membrane filters	Berry	1	612-6818	270.60
accu-jet® S incl. universal AC adapter (100-240 V/50-60 Hz), nickel-metal hydride battery, wall support and 2 spare sterile 0,2 µm membrane filters	Petrol	1	612-6819	270.60
accu-jet® S incl. universal AC adapter (100-240 V/50-60 Hz), nickel-metal hydride battery, wall support and 2 spare sterile 0,2 µm membrane filters	Amethyst	1	612-6820	270.60



VWR® Universal Low Retention Pipette Tips

UNIVERSAL PIPETTE TIPS
VWR, PART OF AVANTOR

VWR® Universal low retention pipette tips repel liquid by creating a hydrophobic surface on the inside of the tip increasing your accuracy and data quality.

- Compatible with the widest range of pipettes
- Maximise sample recovery with low binding resin and a fine point design
- Improves ergonomics by reducing the force required to attach and eject a tip
- Autoclavable at 15 psi, 122 °C for 15 minutes
- Manufactured under an ISO 9001 quality management system

VWR® tips use a low retention resin that is up to ten times more hydrophobic than other polypropylene pipette tips, enabling viscous samples like protein and DNA solutions to dispense easily without collecting inside the tip.

Certified RNase-, DNase-, endotoxin-, metal-, and human DNA-free.

Volume (µl)	Sterile	Tip colour	Packed	Pk	Cat. No.	Price (£)
10 µl						
10	+	Natural	10 racks, 96 each	960	613-6462	23.72
10	-	Natural	10 racks, 96 each	960	613-6453	21.10
10 µl extended						
10	+	Natural	10 racks, 96 each	960	613-6463	23.72
10	-	Natural	10 racks, 96 each	960	613-6454	21.10
200 µl						
200	+	Natural	10 racks, 96 each	960	613-6465	23.72
200	-	Natural	10 racks, 96 each	960	613-6456	21.10
250 µl						
250	+	Natural	10 racks, 96 each	960	613-6468	23.72
250	-	Natural	10 racks, 96 each	960	613-6458	21.10
300 µl						
300	+	Natural	10 racks, 96 each	960	613-6469	23.72
300	-	Natural	10 racks, 96 each	960	613-6459	21.10
1000 µl						
1000	+	Natural	10 racks, 96 each	960	613-6470	28.50
1000	-	Natural	10 racks, 96 each	960	613-6460	25.95
1250 µl						
1250	+	Natural	10 racks, 96 each	960	613-6471	30.23
1250	-	Natural	10 racks, 96 each	960	613-6461	27.25

Sample Preparation



Bead Mill MAX

HOMOGENISER BEAD MILL MAX**VWR, PART OF AVANTOR**

VWR Bead Mill MAX is designed to grind, lyse or homogenise the most difficult samples with repeatable results. The unique tube carriage motion ensures the intra-tube bead movement reduces swirling, and creates the highest bead impact force of any bead mill on the market.

- Optional cryo cooling unit for preventing increase in sample temperature during homogenisation (requires compressed air, liquid nitrogen or dry ice in ethanol) can be ordered separately
- User friendly, multi-lingual touch screen interface
- No cool down period required between runs:
- Unlimited programmable memory setting for shared protocols
- Convenient front loading design features an integrated lid lock

Using sample tubes pre-filled with a variety of bead media, the mill vigorously and uniformly shakes the tubes providing an efficient, consistent high yield and quality homogenisation usually in less than 30 seconds. The Bead Mill MAX is ideal for sample preparation when extracting DNA, RNA, proteins and small molecules.

Drive unit is supplied with 2 ml tube carriage, user manual and two year warranty. VWR disposable bead tubes must be ordered separately.

Model	Bead Mill MAX
W×D×H (mm)	305×432×368
Weight (kg)	29,5
Application	Sample preparation, DNA, RNA, Protein extraction
Capacity	Max. 24 tubes: (24×0,5 ml / 24×1,5 ml / 24×2 ml / 12×7 ml / 6×30 ml)
No. of cycles	1 - 10
Sample volume	0,5 - 30 ml
Speed range	0,8 - 6,5 m/s

Description	Pk	Cat. No.	Price (£)
Package with Bead mill MAX homogeniser, 230 V, plus 2 ml tough microorganism lysing mix (432-0371) and 2 ml soft tissue homogenising mix (432-0372)	1 Pack	432-0453	5,601.01

NEW! PCR solutions by Avantor

New enriched version - covering essentially all products needed within the PCR workflow! 56 pages to help you choose from a wide range of cyclers - workstations - reagents - consumables - complementary equipment.

DOWNLOAD YOUR BROCHURE



PB-tocome



DECONTAMINATION SOLUTION, DNA-EXITUSPLUS™ PANREAC APPLICHEM

Solution for the removal of DNA and RNA contamination from surfaces. Suitable for cleaning PCR work stations and equipment, electrophoresis equipment, as well as pipettes and reaction tubes, for example.

- All components are readily bio-degradable and not harmful or toxic for humans
- Doesn't contain aggressive mineral acids or alkaline substances
- No organic solvents or volatile components
- Delivered as spray bottles or refill bottles (RF)

Description	Pk	Cat. No.	Price (£)
DNA-ExitusPlus™, spray bottle	500 ml	A7089.0500	50.13



Decontamination solution, RNase-ExitusPlus

DECONTAMINATION SOLUTION, RNASE-EXITUSPLUS™ PANREAC APPLICHEM

RNase-ExitusPlus™ is a non-alkaline, non-corrosive and non-carcinogenic cleansing solution that is highly active against RNase contamination. RNase-ExitusPlus™ has been demonstrated to inactivate more than 20 µg of RNase A dried onto the bottom of a microcentrifuge tube. RNase-ExitusPlus™ is stable for approximately 18 months and heat resistant. It should be stored at room temperature; at colder temperatures a precipitate may form which is easily brought into solution at 37 °C. RNase-ExitusPlus™ is supplied in spray bottles and a 1 litre refill pack is also available.

- Catalytic and cooperative effects of the components cause a very rapid non-enzymatic, non-sequence-specific degradation of protein and RNase molecules
- All components of RNase-ExitusPlus™ are readily biologically degradable and not harmful or toxic for humans
- No aggressive mineralic acids or alkaline substances are used; equipment and materials are not damaged or corroded even after prolonged incubation times
- No organic solvents or volatile components, no toxic fumes
- Elevated temperatures above approx. 50 °C speed up the reaction and the efficiency

Description	Pk	Cat. No.	Price (£)
RNase-ExitusPlus™, spray bottle	500 ml	A7153.0500	60.93

Nucleic acid purification



E.Z.N.A.® CYCLE-PURE KITS OMEGA BIO-TEK

E.Z.N.A.® Cycle-Pure kits are designed for the rapid purification of single or double-stranded DNA from PCR or other enzymatic reactions. The purification procedure completely removes primers, nucleotides, enzymes, salts, and other impurities from DNA samples.

V-spin columns have an attached cap, while Q-spin columns are capless. The columns are otherwise identical in use and application.

Description	E.Z.N.A.® Cycle-Pure Kit (V-Spin column)
Method/Format	Column (silica-based)
Prep Size	Mini
Refine target molecule	Amplified/modified DNA
Sample size	Variable
Sample type	PCR and other enzymatic reactions
Target molecule	DNA

Description	Pk	Cat. No.	Price (£)
E.Z.N.A.® Cycle-Pure Kit (V-Spin column)	50 Tests	D6492-01	37.50



E.Z.N.A.® PLASMID MINI KIT I OMEGA BIO-TEK

The E.Z.N.A.® Plasmid Mini Kit I is designed to isolate up to 30 µg of high-quality plasmid DNA from 1 to 5 ml bacterial cultures in 30 minutes or less. Plasmid DNA purification is simplified with HiBind® Mini Column technology into three quick steps: Bind, wash, and elute. Purified plasmid DNA is immediately ready for a wide variety of downstream applications such as routine screening, restriction enzyme digestion, and manual/automated fluorescent DNA sequencing. E.Z.N.A.® Plasmid Mini Kit I is available in either V-spin or Q-spin column format. V-spin column formats have an attached lid while Q-spin columns do not. Both versions can be used for centrifugation or vacuum protocols.

- Purification of plasmid DNA in 30 minutes or less
- No phenol/chloroform extractions
- DNA suitable for downstream applications

Description	E.Z.N.A.® Plasmid Mini Kit I (Q-Spin column)
Method/Format	Column (silica-based)
Prep Size	Mini
Refine target molecule	Plasmid
Sample size	1 - 5 ml
Sample type	Bacteria
Target molecule	Plasmid

Description	Pk	Cat. No.	Price (£)
E.Z.N.A.® Plasmid Mini Kit I (Q-Spin column)	200 Tests	D6942-02	92.60



E.Z.N.A.® PLASMID MINI KIT II, Q-SPIN (WITHOUT LID) OMEGA BIO-TEK

This second generation plasmid miniprep kit yields 40 to 70 µg of high-quality DNA in less than 30 minutes using the same format as the E.Z.N.A.® Plasmid Mini Kit I. The increased DNA binding capacity of the HiBind® Mini Column II allows culture volumes of up to 15 ml to be used, thus bridging the gap between mini and midi prep protocols. Plasmid DNA can be readily and quickly isolated for most downstream applications such as routine screening, restriction enzyme digestion, and DNA sequencing.

- Purification of plasmid DNA in 30 minutes or less
- No phenol/chloroform extractions
- DNA suitable for downstream applications

Description	E.Z.N.A.® Plasmid Mini Kit II (Q-Spin column)
Method/Format	Column (silica-based)
Prep Size	Mini plus
Refine target molecule	Plasmid
Sample size	3 - 15 ml
Sample type	Bacteria
Target molecule	Plasmid

Description	Pk	Cat. No.	Price (£)
E.Z.N.A.® Plasmid Mini Kit II (Q-Spin column)	50 Tests	D6945-01	43.60

RNA ISOLATION, TOTAL RNA KIT I, E.Z.N.A.® OMEGA BIO-TEK

The E.Z.N.A.® Total RNA Kit I provides a simple and rapid method for the isolation of up to 100 µg of total RNA from cultured eukaryotic cells and soft tissues. This kit enables simultaneous multiple samples processing in less than 20 minutes. Normally up to 1×10⁷ eukaryotic cells or 30 mg tissue can be used in a single experiment. Purified RNA can be used in many downstream applications, such as RT-PCR, Northern blotting, nuclease protection assay, and *in vitro* translation.

Description	E.Z.N.A.® Total RNA Kit I
Method/Format	Column (silica-based)
Prep Size	Mini
Refine target molecule	Total RNA
Sample size	1×10 ⁷ eukaryotic cells or 10 - 30 mg tissue
Sample type	Cultured cells, Human/animal cells and tissues
Target molecule	RNA

Description	Pk	Cat. No.	Price (£)
E.Z.N.A.® Total RNA Kit I	50 Tests	R6834-01	78.66



PeqGold trifast

TISSUE DNA KIT, GENOMIC DNA ISOLATION FROM TISSUE, E.Z.N.A.®

OMEGA BIO-TEK

The E.Z.N.A.® Tissue DNA Kit offers a simple, rapid, and cost effective method for the isolation of DNA from a wide variety of sample sources including fresh or frozen animal cells and tissues. After cell lysis, the DNA purification process can be completed in less than 30 minutes. Up to 30 mg of tissue at a time can be readily processed at a time using the simple E.Z.N.A.® Tissue DNA protocol. There is no need for phenol/chloroform extractions, or time-consuming steps such as precipitation with isopropanol or ethanol. DNA purified using the E.Z.N.A.® Tissue DNA Kit is ready for most downstream applications such as PCR, Southern blot and restriction enzyme digestion.

- Isolation of DNA from either fresh or frozen samples
- Process 30 mg of tissue in under 20 minutes (after lysis)
- Purified DNA suitable for most downstream applications
- Optimised buffers guarantee pure DNA every time
- No organic extractions

Description	E.Z.N.A.® Tissue DNA Kit (V-Spin)
Method/Format	Column (silica-based)
Prep Size	Mini
Refine target molecule	Total DNA
Sample size	30 mg tissue
Sample type	Human/animal cells and tissues, Cultured cells, FFPE tissues, Blood, Bacteria
Target molecule	DNA

Description	Pk	Cat. No.	Price (£)
E.Z.N.A.® Tissue DNA Kit (V-Spin)	200 Tests	D3396-02	160.00

DNA/RNA/PROTEIN PURIFICATION REAGENT, PEQGOLD TRIFAST™

VWR LIFE SCIENCE

TriFast™ is a complete ready to use reagent for simultaneous isolation of RNA, DNA and proteins from liquid samples, tissue and cells.

- Contains phenol and guanidine isothiocyanate
- Scalable prep size
- Suitable for small and large samples of human, animal, plant, yeast and virus

The isolation method for RNA, DNA and proteins is built on the well-known single step liquid phase separation (RNAClean). After the addition of chloroform the homogenate separates into three phases upon centrifugation. The aqueous phase containing the RNA, the interphase the DNA and the organic phase. Protein are processed separately resulting in RNA, DNA and protein of excellent quality and high yield.

Simultaneous purification of DNA is an effective way to normalise RNA yields from sample to sample.

Store at 4 °C, protect from long exposures to light (stable for 12 months)

Description	TriFast™ - DNA/RNA/protein extraction reagent
Method/Format	Organic extraction, Precipitation
Prep Size	Scalable
Refine target molecule	Total DNA, Total RNA, Total protein
Sample type	Human/animal cells and tissues, Cultured cells, Plant samples, Yeast/Fungi, Bacteria
Target molecule	DNA, RNA, Protein, Copurification of RNA, DNA & protein

Description	Pk	Cat. No.	Price (£)
TriFast™ - DNA/RNA/protein extraction reagent	100 mL	30-2010	59.70

Amplification

XT⁹⁶Thermal cycler, XT⁹⁶
THERMAL CYCLERS, XT⁹⁶ VWR®
VWR, PART OF AVANTOR

The XT family of VWR PCR thermal cyclers combine industry- and customer-inspired innovation housed in a robust, low noise design that fits on virtually any bench top. The fast ramping 96-well block is accurately controlled by eight Peltier elements ensuring reproducible PCR results and offering a gradient PCR option. Making use of advanced technology, XT cyclers can be connected via Ethernet and controlled remotely by a primary XT⁹⁶ cycler, a PC or a mobile device (smartphone/tablet). The software/App needed comes free and provides the same intuitive user interface as the touch-sensitive, sharp 7» TFT display that the XT⁹⁶ cycler is equipped with.

Other innovative features:

- Flexible lid: Heated lid automatically adjusts to fit every PCR tube, creating pressure that prevents sample evaporation
- Innovative block design with reduced mass allows highest temperature uniformity, and heating and cooling rates of up to max. 4 °C/s
- Precise temperature control for shortest run times, without over- and under-shoots, for best PCR results

- Gradient function (optional): Eight advanced control circuits and Peltier elements, providing an almost linear gradient – ideal for PCR optimisation
- Sharp, clear 7» TFT display, combined with intuitive software, simplifies use and suits all user expectations
- Intuitive programming: PCR-Wizard for convenient three-step, two-step, and gradient PCR programming
- Quick set-up: Select one of the 'Recently used methods' to accelerate your PCR run
- Data control: Up to 2x USB, 1x Ethernet (MS Windows®, Linux), remote control and monitoring of instruments via PC software, MP3 signal tones, and primary/secondary control

Manufactured in Germany according to ISO 9001, calibrated and maintained according to NIST standards, and backed by 30 years of cycler technology expertise and experience.

All XT thermal cyclers include simple to use PC software for remote control and monitoring of instruments, as well as for creating PCR protocols on a PC.

Model	XT ⁹⁶ Gradient
Block format	96x0,2 ml tubes or 96-well PCR plates
Block homogeneity	±0,35 °C at 72 °C
Cooling	8 Peltier elements per block, with long-life technology, and 8 control circuits with PT1000 temperature sensors
Gradient temperature range	+30...100 °C (±0,2 °C)
Heating and cooling rate	Max. 4 °C/s
Interfaces	2x USB, 1x Ethernet (MS Windows®, Linux), remote control and monitoring of instruments via PC software and primary/secondary control
Lid	Automatic height adjustment
Lid temperature range (°C)	+40...110 °C
Max. gradient	30 °C (±15 °C)
No. of programs	500 000
Software	Graphical or tabular programming; 'Global Program Ramp'; 'Tube Control'; online help; 'Quick Start' function and 'Power Fail Denaturation' for auto-restart after power failure; MP3 signal tones; primary/secondary control
Temperature range	+4...105 °C
Weight	8,9 kg (including block)
WxDxH (mm)	220x330x310

Description	Pk	Cat. No.	Price (€)
Gradient thermal cycler, XT ⁹⁶ Gradient, with 96-well gradient block and standard lid, for 96x0,2 ml tubes or 96-well PCR plates	1	732-3428	3,014.73

Enquire now !



AriaMx qPCR system

ARIAMX REAL-TIME PCR SYSTEM AGILENT TECHNOLOGIES

The AriaMx Real-Time PCR system is a fully integrated quantitative PCR amplification, detection and data analysis system.

- Gene expression analysis
- New genotyping/HRM capability, mRNA quantification
- NGS quantification: Library preparation, result validation, nucleic acid monitoring and rare allele detection
- Can use self-installable optical cartridges
- Operates at a Cq uniformity standard deviation of <0,20 at fast cycling (5 s at 95 °C / 10 s at 60 °C)
- Data acquisition time of <3 s/plate
- Dynamic range of nine orders of magnitude
- Operates at a maximum altitude of 2000 m and in 20 to 80% relative humidity

The system design combines a state-of-the-art thermal cycler, an advanced optical system with an LED excitation source, and complete data analysis software.

This instrument can hold up to six optics modules, and the scanning optics design delivers optimal separation between the dyes and between samples also providing a 'closed tube'

PCR detection format that can be used with a variety of fluorescence detection chemistries including SYBR® Green and EvaGreen dyes, as well as fluorogenic probe systems including TaqMan probes.

The AriaMx amplifies the productivity with its unique modular and flexible design, intuitive touch screen interface, advanced, easy to use reporting and 120+ attributes monitored through the built-in on-board diagnostics to help pinpoint assay or instrument issues as they arise.

Software upgrade statements available online, no charge. Optional for purchase warranty length of five years.

Includes configurable optical modules (up to six), a touch screen controller, Experimental Import, LIMS connectivity, 96 wells, 5 GB of protocol storage, on-board instrument diagnostics, remote monitoring capabilities, one year standard warranty.

For Research Use Only. Not for use in diagnostic procedures.

Compatible with	Optical cartridge types: SYBR/FAM, ROX, HEX, CY5, CY3, ATTO 425
Control accuracy	±0,2 °C
Cooling rate	Average = 2,5 °C/sec or Median = 3,0 °C/sec
Detector	8 filtered photo diodes
Display	Resolution = 1024x768 (1280x1024 recommended) pixels Touch screen interface
Electrical	100 - 240 V, 50/60 Hz
Heating rate	6 °C/s
Power	1100 A
Processing time	3 s
Software	ARIA software - standard with instrument
Temperature range	Operating environment temperature of 20... 30 °C
Temperature range (°C)	25,0...99,9
Uniformity	PCR ±0,4 °C
Volume (µl)	10 - 30
Weight (kg)	23
WxDxH (mm)	500x460x420

Description	Pk	Cat. No.	Price (£)
Base Instrument			
AriaMx Real-Time PCR System Without Installation	1	732-3785	ENQUIRE

AMPLIFICATION TAQS



	AccuStart II PCR SuperMix	AccuStart II GelTrack PCR SuperMix	sparQ HiFi PCR Master Mix	AccuStart II PCR ToughMix	repliQa HiFi ToughMix	AccuStart Long Range SuperMix
Features						
Concentration	2x	2x	2x	2x	2x	4x
Amplicon Size	Up to 4 kb	Up to 4 kb	Up to 4 kb	Up to 4 kb	Up to 24 kb	Up to 24 kb
Extension Time*	60 sec/kb	60 sec/kb	30 sec/kb	60 sec/kb	1 - 10 sec/kb	30 - 60 sec/kb
Multiplex PCR						Up to 6 Targets
Fidelity vs. Taq	1x	1x	80x	1x	90x Taq	10 - 12x Taq
dU Tolerant	No	No	No	No	Yes	Yes
5' → 3' exo	x	x	N/A	x	N/A	N/A
3' → 5' exo	N/A	N/A	x	N/A	x	x
Resulting Ends	3' dA overhang	3' dA overhang	Blunt	3' dA overhang	Blunt	Blunt/T overhangs
Applications						
Routine PCR	x	x		x	x	x
High Fidelity			x		x x	x
Crude PCR				x	x x	
Fast PCR					x x	
Long PCR					x	x x
High Yield					x x	x
NGS Library Amplification			x x		x	
Available Formats						
Hot Start	x	x	x	x	x	x
Master Mix	x	x	x	x	x	x
Loading Dye Available		x		x		
Packaging (Rxns/Units)	500 Rxns	500 Rxns	250 Rxns	800 Rxns	500 Rxns	100 Rxns
Cat No.	733-2242	733-2239	733-2607	733-2261	732-3662	732-3648
Price (£)	147.00	147.00	474.26	260.00	650.00	201.10

ETHANOL 80% VOL, MOLECULAR BIOLOGY GRADE

VWR CHEMICALS

Ready to use Ethanol 80% in water - prequalified for molecular biology applications.

- 80% ethanol
- Dnase/RNase, and protease-free
- Ready to use to avoid dilution in water (save time and avoid contamination)
- Suitable for the purification and precipitation of DNA, RNA and proteins

Ethanol 80% is required in many protocols (automated or manual) for Nucleid Acid purification using columns or magnetic bead-based technology. Ethanol free from DNAase/RNase is used to purify high-quality nucleic acid from a range of sample types.

Description	Pack type	Pk	Cat. No.	Price (£)
Ethanol 80% vol, Molecular Biology Grade	Plastic Bottle	500 ml	6624.0500	12.79
Ethanol 80% vol, Molecular Biology Grade	Plastic Bottle	5 L	6624.5000	39.08
Ethanol 80% vol, Molecular Biology Grade Duty Paid	Plastic Bottle	500 ml	6624.0500DP*	12.79
Ethanol 80% vol, Molecular Biology Grade Duty Paid	Plastic Bottle	5 L	6624.5000DP*	39.08

*Duty to be added to promo price

New Product!

WATER, MOLECULAR BIOLOGY GRADE, TESTED TO USP SPECIFICATIONS, STERILE

CORNING LIFE SCIENCES

Molecular biology grade water is ideal for the preparation of reagents, rinsing glassware and plasticware, and other molecular biology applications where Rnase, Dnase, and Protease-free water is required.

No toxic agents, including DEPC, are used in the preparation of Mediatech's molecular biology grade water, eliminating possible interferences with enzymatic reactions.

Description	Pack type	Pk Info	Pk	Cat. No.	Price (£)
Water, Molecular Biology Grade, Tested to USP Specifications, sterile	Plastic bottle	6x 1000 ml	6	46-000-CM	74.34

*Note product on offer has expiry date of 30/11/22. Please contact us should you need a longer shelf life.



PCR plates for Roche® LightCycler® 480

PCR PLATES FOR ROCHE® LIGHTCYCLER® 480 BRAND

PP, white. Available with 96-well low profile and 384-well formats. Both plates are compatible with many thermal cyclers, but are perfectly suited for use in the Roche® LightCycler® 480.

- Uniformly coloured with titanium dioxide (TiO₂)
- Smooth surfaces to optimise reflection of the fluorescence signal
- Extra-thin wall thickness to provide optimal thermal transfer and short cycle times
- 96-well plates have black alphanumeric coding, no additional markings on the cut corner
- Free from DNase, RNase and DNA
- Autoclavable 121 °C (2 bar), acc. DIN EN 285

*suitable for multichannel pipettes and robotic systems

Barcoded versions of these plates are also available. Please contact your local Avantor sales office for further details.

Description	No. of wells	Profile	Skirt	Well colour	Barcoded	Pk	Cat. No.	Price (£)
PCR plate, cut corner H12, with 50 self-adhesive sealing films for qPCR	96	Low	Semi-skirted	White	No	50	732-1463	230.00
PCR plate, cut corners P24, A24 *	384		Fully skirted	White	No	50	731-0164	255.00

Samples
available



PCR plate 96 wells white skirted low profile thin-wall

PCR PLATE 96 WELLS FOR AUTOMATION, J.T.BAKER® RITTER, PART OF AVANTOR

J.T.Baker® PCR plates are constructed with two plastic components. A polycarbonate ultra-rigid frame for automation and polypropylene ultra-thin wells for optimal thermal transfer and qPCR results.

- Available in barcoded and non barcoded version
- Standard SBS format for use with automation
- Slightly raised well rims for better sealing
- Stackable and comes with 8 notches for easy insertion on thermoblock
- White frame, white wells
- Alphanumeric well markings
- V-bottom
- 200 µl total volume

Applications: PCR, qPCR, NGS library set up.

Produced under cleanroom conditions (ISO 14644-1 Class 8). Free from DNA, DNase, RNase, and PCR inhibitors.

10 packs of 5 plates in PE foil.

Description	No. of wells	Skirt	Well colour	Frame colour	Barcoded	Pk	Cat. No.	Price (£)
PCR plate, rigid, H1/H12/A12 cut corner	96	Fully skirted	White	White	Yes	50	43001-0302	143.50
PCR plate, rigid, H1/H12/A12 cut corner	96	Fully skirted	White	White	No	50	43001-0301	137.20

PCR/QPCR PLATES, 96-WELLS, PLASTIC VWR, PART OF AVANTOR



PCR plate 96W semi skirted 0,2 ml

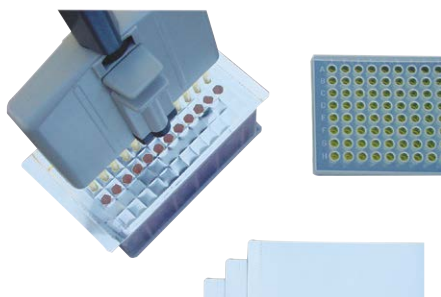
Constructed with ultra-thin and consistent wall thickness to allow precise thermal transfer for optimum results.

- Natural or white PP
- Standard or low profile
- Flat top or raised deck
- Non skirted, semi-skirted or fully skirted
- Options to fit standard, ABI FAST and Roche 96-well blocks
- Autoclavable

96-well PCR plates are the ideal option for use in PCR thermal transfer and Real-Time PCR applications.

FDA 21 CFR compliance. Compliance to BSE/TSE (free from animal origin). Non pyrogenic, DNase-, RNase- and latex-free.

Description	No. of wells	Profile	Skirt	Well volume (ml)	Well colour	Barcoded	Pk	Cat. No.	Price (£)
Standard profile									
PCR plates, cut corner A12	96	Standard	Semi-skirted	0,2	Natural	No	50	732-3755	51.84
PCR plates, cut corner A12	96	Standard	Semi-skirted	0,2	Natural	Yes	50	732-3756	79.72
PCR plates, cut corner A12	96	Standard	Semi-skirted, raised rim	0,2	Natural	No	50	732-3758	59.25
PCR plates, cut corner A12	96	Standard	Semi-skirted, raised rim	0,2	Natural	Yes	50	732-3759	86.26



ADHESIVE PCR FOIL SEALS VWR, PART OF AVANTOR

These soft, non permeable 63,5 µm thick aluminium foils, with strong medical grade adhesive, eliminate the need for heat sealing devices or mats during thermal cycling. Compared to other aluminium foils, these foils have less tendency to roll back on themselves when removing the backing paper, and fit well to the plate during application.

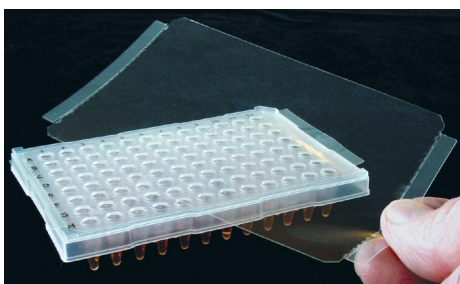
- Recommended for temperatures from –80 to +120 °C
- Easily pierceable with pipette tips and robotic probes
- Excellent vapour barrier, virtually no sample evaporation
- Certified free from DNase, RNase and nuclease

Each foil LxD: 142,9×82,6 mm with sufficient sealing area for all PCR plates.

Length with end tabs removed: 125,4 mm

Sterile product is packed in tamper-evident bags of 25/bag.

Description	Optical property	Sterile	Thickness (µm)	Pk	Cat. No.	Price (£)
Aluminium foils	Light blocking	+	63,5	50	391-1257	52.03
Aluminium foils	Light blocking	-	63,5	100	391-1256	84.00



ULTRA-CLEAR FILMS FOR QPCR VWR, PART OF AVANTOR

Transparent polyester films with strong, non absorbing, non fluorescing, medical grade adhesive for superior performance in qPCR applications. Supplied non sterile.

- Recommended for temperatures from –40 to +120 °C
- Ultra-high optical clarity
- Certified free from DNase, RNase and nuclease

Each film LxD: 142,9×79,4 mm

Length with end tabs removed: 121,9 mm

Description	Optical property	Sterile	Thickness (µm)	Pk	Cat. No.	Price (£)
Optically-clear	Optically clear	-	80,0	100	391-1258	84.36
Optically-clear, for raised rim plates	Optically clear	-	80,0	100	391-1295	103.36

NEW PRODUCT!



Nanopore-MinION-Flow-Cell

DNA/RNA SEQUENCING DEVICE, MINION™
OXFORD NANOPORE TECHNOLOGIES

Your personal, portable DNA and RNA sequencer.

- Direct, real-time sequencing of DNA or RNA Sequence DNA/RNA molecules of any length — from short to ultra-long
- Simple workflow, with library prep in as little as 10 minutes
- Fits in the palm of your hand; weighs just 100 g
- Connect to a laptop via USB port

Get complete control and creativity over when, where, and how often you sequence. MinION™ provides the power of nanopore sequencing in an accessible, fully portable device. Weighing only 100 g and running off a laptop, MinION™ generates tens of gigabases of real-time data in the field or lab.

Oxford Nanopore Technologies products are not intended for use for health assessment or to diagnose, treat, mitigate, cure, or prevent any disease or condition.

Description	Pk	Cat. No.	Price (£)
MinION™ starter pack	1	STARTERPACK	800.00



Mag-Bind® TotalPure NGS

Discounted Price! Samples Available

NEXT GENERATION SEQUENCING (NGS), DNA/ RNA CLEAN UP MAG-BIND® TOTALPURE
OMEGA BIO-TEK

Mag-Bind® TotalPure NGS offers an easy-to-use, reliable solution for the purification of both DNA and RNA for next-generation sequencing workflows with high recovery rates. Mag-Bind® TotalPure NGS is capable of selectively binding fragments depending on the reagent to sample ratio used, giving the user flexibility to perform left, right or double-sided size selection.

- One stop solution for both DNA and RNA clean-up
- Double-sided size selection capability
- No centrifugation steps
- Manual and automation-friendly sample processing in 96- and 384-well formats

The system combines proprietary chemistries with the reversible nucleic acid-binding properties of magnetic beads to selectively bind fragments larger than 100 bp and eliminate excess nucleotides, primers, and small, non-targeted products, such as primer-dimers. Purified DNA and RNA is suitable for a variety of downstream applications, such as NGS library preparation, microarrays, automated fluorescent sequencing and restriction enzyme digestion.

Description	Pk	Cat. No.	Price (£)
Mag-Bind® TotalPure NGS	50 ml	M1378-01	387.00



sparQ RNA-Seq HMR kit

NEW PRODUCT! Samples available

SPARQ RNA-SEQ HMR KITS
QUANTABIO

Ultra FAST RNA library prep with integrated rRNA and globin depletion.

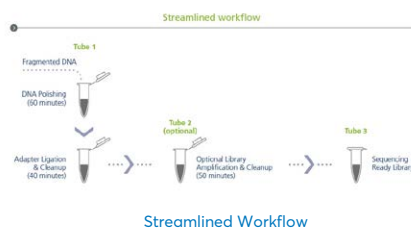
- High quality directional RNA library prep in 5 hours
- Simple workflow with 3 reaction tubes, 9 steps and 9 components
- Efficient and integrated removal of rRNA and globin mRNA from human/mouse/rat (HMR) samples
- Improved results for samples with limited quantity and/or poor quality RNA

sparQ RNA-Seq HMR kit generates high quality libraries that efficiently capture transcripts of interest by retaining high percentage of coding regions while leaving minimal amount of rRNA and globin mRNA. Consistent results were observed regardless of sample quantity and quality. The simplified workflow of the kit features seamless integration of ribo-globin depletion, RNA fragmentation and priming into a single step for less handling of RNA samples.

sparQ RNA-Seq HMR kit prepares libraries that consistently show high yield, high uniformity and increased unique transcript identification from either intact or degraded samples. The proprietary, highly optimised enzymes support key improvements for low input and degraded samples.

Reproducible results are achieved between high and low input amounts for various sample types.

Description	Pk	Cat. No.	Price (£)
sparQ RNA-Seq HMR kit	1 KIT	733-2900	1,639.00



DNA LIBRARY PREP KIT, SPARQ QUANTABIO

An optimised kit for the rapid construction of DNA libraries from fragmented double-stranded DNA for sequencing on Illumina® NGS platforms and prepares for sequencing success with the highest quality library.

- Simplified 2-step protocol speeds sample preparation to under 3 hours and minimises sample loss from transfer step
- Increased library yields enable the construction of low input DNA sample from 250 pg
- Minimised bias improves coverage across difficult to sequence regions ensuring optimal results
- PCR-free workflows enabled from 100 ng input DNA
- Improved overall sequencing workflow economics

DNA polishing reactions are combined in a single step to convert fragmented DNA into 5'-phosphorylated and 3'-dA-tailed DNA fragments suitable for direct ligation of sequencing adapters without the need for an intervening cleanup saving

valuable time and bead purification expense. The HiFi PCR Master Mix and Primer Mix allows for the optional, unbiased amplification of fragments with appropriate adapters ligated to both ends. The kit is compatible with input amounts from 250 pg to 1 µg DNA and multiple sample types.

The highly efficient library prep reduces the bias resulting in the superior quality, to minimise coverage gaps especially for challenging regions like GC- and AT-rich sequences. For applications requiring amplification, the high fidelity master mix is formulated to increase library yield reducing the number of cycles required to create a sequence-ready library thereby reducing additional PCR-derived artifacts.

Description	Pk	Cat. No.	Price (£)
Library Prep Kits			
sparQ DNA library prep kit	24 Tests	733-2595	382.93

Electrophoresis

DNA-DYE NONTOX NUCLEIC ACID GEL STAIN PANREAC APPLICHEM

DNA-Dye NonTox is a highly sensitive, non toxic, fluorescent staining reagent for the detection of double-stranded DNA (dsDNA). The dye produces instant visualisation of DNA bands on gels upon blue light or UV illumination.

- nonhazardous Ethidium bromide substitute
- Loading buffer with highly sensitive DNA dye
- Higher transfection rates since DNA structure and integrity is not affected
- Ready to use
- Contains three tracking dyes Bromophenol Blue, Xylene Cyanol FF, and Orange G for visually tracking the DNA migration during the electrophoresis process

DNA-Dye NonTox is ideal in terms of environmental safety by offering a non hazardous alternative to ethidium bromide. In addition, the dye included in DNA-Dye NonTox does not affect the structure and integrity of DNA.

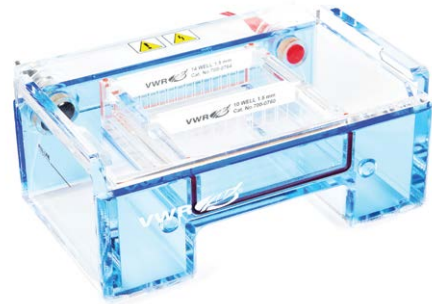
Supplied in 6X DNA loading buffer to prepare DNA markers and samples for loading on agarose or polyacrylamide gels.



Description	Pk	Cat. No.	Price (£)
DNA-Dye NonTox	1 ml	A9555.1000	59.82



Great Pricing!



PERFECTBLUE GEL SYSTEM, MINI S
VWR, PART OF AVANTOR

The smallest of all the PerfectBlue electrophoresis systems, the Mini S can be used for up to 24 samples enabling short and rapid sample separation. This model includes all the features of the larger models, including direct chamber gel casting and embedded platinum electrodes, and is supplied ready to use with lid, power leads, two combs and a gel tray with an easy to read ruler.

Gel size (W×L): 70×80 mm

System is supplied with 2 combs (6 and 10 teeth, 1,5 mm thickness) as standard.

Model	Mini S
Gel size W×L	70×80 mm
Gel volume	~30 ml
Run time	≥30 h
Unit W×L×H	120×160×95 mm
Buffer volume	~400 ml

Description	Pk	Cat. No.	Price (£)
PerfectBlue gel system Mini S	1	700-0741	356.78

PERFECTBLUE GEL SYSTEM, MINI M
VWR, PART OF AVANTOR

The PerfectBlue Mini M electrophoresis system is a very convenient size for a wide range of routine uses. Supplied with two combs, but with a wide range of standard and microtitre combs available, this system can be used for the separation of up to 36 samples. The system comes 'ready to use' with lid, power leads and a gel tray. Its high specification construction and embedded platinum electrodes provide high quality results time after time.

System is supplied with 2 combs (10 and 14 teeth, 1,5 mm thickness) as standard.

Model	Mini M
Gel size W×L	90×110 mm
Run time	≥45 h
Unit W×L×H	90×110×95 mm
Buffer volume	600 ml ml

Description	Pk	Cat. No.	Price (£)
PerfectBlue gel system Mini M	1	700-0758	320.39



PERFECTBLUE GEL SYSTEM, MINI L
VWR, PART OF AVANTOR

Capable of running 12×14 cm gels, the largest of the 'Mini' range still offers the convenience of direct gel casting in the tray, in an easy to manage product size for reliable, high quality electrophoresis. This system can be supplied with a choice of gel trays suitable for 2, 4 or 12 combs, and an expansive range of standard and microtitre combs, making this versatile system appropriate for both routine and small separation electrophoresis.

System is supplied with gasketed UV transmissible (UVT) gel tray (L4) with 4 comb positions and 2 combs (12 and 20 teeth, 1,5 mm thickness) as standard.

Model	Mini L
Gel size W×L	120×140 mm
Sample capacity	8 – 100
Gel volume	~85 ml
Run time	≥60 h
Unit W×L×H	170×250×95 mm
Buffer volume	~800 ml

Description	Pk	Cat. No.	Price (£)
PerfectBlue gel system Mini L	1	700-0777	475.97



PerfectBlue™ universal power supply

POWER SUPPLY, UNIVERSAL, PERFECTBLUE VWR, PART OF AVANTOR

VWR PerfectBlue power supply is constructed with PC housing and flame-retardant ABS face plate, and is ideal for DNA, RNA and protein electrophoresis, as well as blotting, and for routine horizontal and vertical electrophoresis.

- Compact size with a stackable case provides a small footprint
- TFT-LCD (2,4») colour screen shows all parameters during operation
- Timer with alarm function
- Constant voltage/current/power operation mode
- Restart the operating program automatically after power outage

The power supply has four pairs of outlet terminals which covers the broadest range of applications in the general laboratory.

It can operate in full programmable mode offering up to six multi-step setting conditions. The unit has pre-programmed typical running conditions for easy start-up. It is designed with features to ensure laboratory and experiment safety.

Additional features include leakage detection, over-temperature/voltage/current protection, sudden load change detection and shrouded plugs and sockets. Voltage or current with automatic crossover, and when target constant mode is set, system automatically adjusts the two other parameter to maximum to allow a constant run.

ELT certified.

Model	Universal
Current	1 - 700 mA
Display	TFT
Input voltage	100 - 240 V, 47 - 60 Hz
Operating conditions	4...40 °C
Operating constant modes	Current, voltage, power
Output current range/increments	1 - 700/1 mA
Output voltage range/increments	5 - 300 V / 1 V
Power	150 W
Timer	1 - 999 min with alarm, continuous
Weight (kg)	2,1
WxDxH (mm)	215x335x104

Description	Pk	Cat. No.	Price (£)
Power supply, universal, PerfectBlue	1	700-1285	374.68



PerfectBlue™ HC power supply

POWER SUPPLY, HIGH CURRENT, PERFECTBLUE VWR, PART OF AVANTOR

The high current power supply provides higher output current and power (W) compared to the universal model, to support higher performance in DNA electrophoresis, Western blotting and SDS-PAGE applications.

Model	High current
Current	10 - 3000 mA
Display	TFT
Input voltage	100 - 240 V, 47 - 60 Hz
Operating conditions	4...40 °C
Operating constant modes	Current, voltage, power
Output current range/increments	10 - 3000/10 mA
Output voltage range/increments	5 - 300 V / 1 V
Power	300 W
Timer	1 - 999 min with alarm, continuous
Weight (kg)	2,1
WxDxH (mm)	215x335x104

Description	Pk	Cat. No.	Price (£)
Power supply, high current, PerfectBlue	1	700-1316	563.22



Cell counter

CELL COUNTER CORNING LIFE SCIENCES

This cell counter uses online image processing with a cloud-based machine learning algorithm.

- Fast and accurate results: Fits into the palm of a hand
- Cell count in less than 3 seconds
- Sophisticated deep neural network for cell detection with optimal accuracy – when Trypan blue is added, the system can also detect cell viability

Connect to a Windows® 10 computer or tablet and start the Cytosmart Cloud app. Place the counting chamber on stage, focus on the cells, and press the counting function.

CE marked. uSTUV, CSA certified.

Includes a reusable counting chamber.

Description	Pk	Cat. No.	Price (£)
Cell counter	1	734-3259	2,850.00



SMART5

GEL DOCUMENTATION SYSTEM, SMART5 VWR, PART OF AVANTOR

SMART5 is a new generation of low cost, integrated imaging system for DNA and protein analysis, also gel documentation.

- Compact workstation
- Complete with built-in processor, touch screen and SMART5 software
- Motor-driven zoom lens
- 5 MP camera
- White, UV and blue lighting options
- Complete networking connectivity (optional)

SMART5 is the ultimate in compact gel documentation workstations. Using a choice of UV, blue or white lighting options, you can capture and edit images of fluorescent ethidium bromide, SYBR® Safe or GelGreen™ DNA gels and protein gels stained with Coomassie Blue at the workstation.

For an entry level system, the SMART5 comes with a ground breaking 5 MP CCD camera giving superb pixel resolution and unrivalled sensitivity. SMART5 offers a maximum viewing area of 20×24 cm which is very large for such a small, compact unit.

Complete system includes 5 MP camera with motor-driven zoom lens f1.2; epi white light for sample positioning; UV032 filter; image capture and GeneTools analysis software. Transilluminator and converter screens not supplied (available separately).

Model	SMART5
Camera	5 MP, 12/16 bit CCD
Display	7" (17,8 cm) touch screen
Dynamic range	3,6/4,8 (extended)
Filters	UV032
Image area	200×240 mm
Lens	8 - 48 mm f/1,2
Software	GeneTools
Weight	20 kg
W×D×H	310×450×750 mm

Description	Pk	Cat. No.	Price (£)
Gel Documentation System	1	730-0496	4,985.60

CELL STRAINERS VWR, PART OF AVANTOR

Manufactured from a strong nylon mesh with evenly spaced mesh pores, these cell strainers are sterile, easy to use devices for quickly isolating primary cells to consistently obtain a uniform single-cell suspension from tissues. Designed to protect valuable flow cytometry and cell sorting instrumentation by reliably removing clumps and debris from cell suspensions and clinical samples prior to analysis.

- Available in three mesh sizes with different colours for easy identification
- Extended lip on the strainer enables aseptic handling with forceps
- Ready to use, sterilised by electron beam irradiation
- Individually wrapped
- Fit into most 50 ml conical tubes
- Free from DNase and RNase, non pyrogenic

ISO 9001, ISO 13485

Description	Pk	Cat. No.	Price (£)
Cell strainers, 40 µm pore size, blue frame	50	732-2757	33.63
Cell strainers, 70 µm pore size, white frame	50	732-2758	33.50
Cell strainers, 100 µm pore size, yellow frame	50	732-2759	33.96

Great Prices !





New !

VWR CO₂ incubator ILCO 180

CO₂ INCUBATOR, INCU-LINE® ILCO 180 PREMIUM VWR, PART OF AVANTOR

The ILCO 180 Premium offers optimum growth conditions for cell cultures and meets demanding requirements for best possible cell growth and maximum sample safety. This CO₂ incubator comes with a built-in, drift-free infrared CO₂ sensor which can be sterilised. Reliable decontamination is provided by the standard-compliant 180 °C hot air sterilisation routine which completely eliminates contaminants and ensures the inner chamber is completely sterilised. This model has an intuitive menu and user friendly software, also USB port for data download to USB stick and for uploading programs. It can be connected to Ethernet or Wi-Fi networks for remote control from any computer, and users can receive notifications about alarms/events via e-mail.

Model	ILCO 180 Premium
Temperature range (°C)	Ambient +5...50
Temperature fluctuation (time) (°C)	<±0,1 °C at 37 °C
Temperature variation (spatial) (°C)	<±0,3 °C at 37 °C
Recovery time after 30 second door opening at 37 °C	6 min
Capacity	182 L
Usable volume	135 L
Convection type	Natural convection
CO ₂ range	0 - 20%
CO ₂ recovery time after 30 second door opening at 5 Vol.% CO ₂	10 min
Max. load per shelf (kg)	10
Max. chamber capacity	30 kg
Int. WxDxH	560x500x650 mm
Ext. WxDxH	700x780x920 mm
Energy consumption	66 Wh/h at 37 °C
Nominal power consumption (W)	1700
Sound level (dB(A))	42
CO ₂ sensor	IR
Electrical	230 V, 50 - 60 Hz
Humidity	90 - 95% RH

- Multi-functional microprocessor controller with 7" full colour touch screen, gives overview of set and current parameters while running
- Access control via password login and administrator function to manage five user accounts
- 40 user-program memory, quick and easy change of parameters during a running program
- Multi-segment temperature/time profile (up to 100) with adjustable ramps
- Timer from 1 minute up to 366 days or continuous operation
- Adjustable start delay feature and loop function
- Adjustable over-temperature safety thermostat Class 3.1 (DIN 12880) protects samples and the incubator

This incubator has a solid, powder coated sheet steel outer door, an internal glass door and a fan less inner chamber made of high grade stainless steel (DIN 1.4301). It is equipped with a rack for shelves, a removeable water pan, two 30 mm access ports (left and rear) and door lock. It can be stacked using an optional stacking adapter to save space. The optional base on castors will avoid contamination of the chamber caused by soil pollution.

Safety features include audible and visible temperature alarms, power failure control system, open door alarm, temperature sensor fail alarm and auto-diagnostic function.

Unit features Premium Control Software that aids GLP compliance with password protection settings, events registry and an internal memory which stores up to 10000 data records for each user (stored for a maximum of 12 months). Users can overview the values on the display or a PC in tabular or graphic form.

Unit is supplied with three stainless steel perforated shelves, keys to the lock (2 pcs), 3 metre pressure gas hose, hose clamp, manufacturer test certificate at 37 °C, Ethernet cable, multilingual instruction manual and Premium Control Software (can be downloaded from internal memory onto USB stick).

Type	Shelves supplied (max.)	Weight (kg)	Pk	Cat. No.	Price (£)
ILCO 180 Premium	3 (6)	96	1	390-1544	5,150.00

Enquire Now!



Bundle SpectraMax® iD3

MICROPLATE READERS, MULTI-MODE, SPECTRAMAX® iD3 MOLECULAR DEVICES

The SpectraMax® iD3 multi-mode microplate reader measures absorbance, fluorescence and luminescence and is ideal for busy multi-user, multi-application labs. Large, high resolution touchscreen interface allows you to easily set up methods, run experiments or view tutorial videos without the need for a dedicated computer workstation.

- Easily and quickly pull up your custom protocols with a single tap, and reduce the possibility of confusion in busy, multi-user labs, with built-in near-field communication (NFC) functionality
- Access your results quickly, with no need to physically go to the instrument, with QuickSync
- Comes with SoftMax® Pro Acquisition and Analysis software – the world's most published microplate reader control and data analysis software
- Working in a regulated GMP/GLP environment? Validate your instrument and software with an extensive suite of GxP tools and services

Model	SpectraMax® iD3
Light source	Xenon flash lamp
Detector	PMT and/or photodiode
Wavelength range (nm)	230 - 1000
Wavelength selection	Choice of simultaneous detection of all wavelengths or selection in 1,0 nm increments
Wavelength accuracy	±2,0 nm
Plate types	6- to 384-well plates
Shaking	Orbital and infinity
Incubation range	5 °C above ambient to 65 °C
Temperature accuracy (°C)	±1 °C at 37 °C
W×D×H (mm)	532×598×401
Weight (kg)	40
Photometric range	0 - 4,0 OD
Temperature uniformity	±0,75 °C
Wavelength bandwidth	4,0 nm

Description	Pk	Cat. No.	Price (£)
SpectraMax® iD3 multi-mode microplate reader with injectors (academic, 2 year warranty)	1	ID3INJSCACAD	ENQUIRE



SEROLOGICAL PIPETTE, STANDARD VWR, PART OF AVANTOR

100% high clarity polystyrene, graduated, sterile.

- Graduations are calibrated for accurate dispensing to within ±3%
- Colour coded stripes for quick volume identification
- Non pyrogenic
- Filter plug

Individually wrapped in paper-plastic bags or bulk packed in bags.

Capacity (ml)	Division (ml)	Colour code	Packed	Pk	Cat. No.	Price (£)
Individually wrapped						
1	0,01	Yellow	Individually wrapped, 100 per bag, 10 bags per carton	1.000	612-3707	51.40
2	0,01	Green	Individually wrapped, 100 per bag, 8 bags per carton	800	612-3704	54.50
5	0,10	Blue	Individually wrapped, 50 per bag, 6 bags per carton	300	612-3702	23.21
10	0,10	Red	Individually wrapped, 50 per bag, 4 bags per carton	200	612-3700	22.30
25	0,20	Dark red	Individually wrapped, 50 per bag, 4 bags per carton	200	612-3698	36.65
50	1,00	Black	Individually wrapped, 25 per bag, 4 bags per carton	100	612-3696	33.00



Centrifuge tubes

CENTRIFUGE TUBES, HIGH PERFORMANCE, FLAT CAP, PP VWR, PART OF AVANTOR

These leakproof disposable conical bottom tubes feature black graduations and smooth inner walls for easy filling and sample preparation.

- Easy to read black graduations in $\pm 2\%$ increments
- White printed writing area for permanent coding
- RNase-, DNase- and endotoxin-free
- Autoclavable at 121 °C and freezable to -80 °C
- Can be centrifuged up to 12500 $\times g$
- Tubes are sterilised by irradiation

Caps are made of green high density polyethylene.

Rack-packed tubes are packed in freezable, recyclable, autoclavable, washable plastic racks. The racks are marked with numbers (1 to 25) for identification, they are angled at one end to stack up easily. The interlocking design of each polypropylene rack makes them ideal for bench top organisation.

Manufactured in a Class 100 000 cleanroom environment. Manufactured under ISO 13485:2016 and ISO 9001:2015 quality management systems. Meet the requirements of RoHS.

Bulk packed items are supplied with tubes, caps are packed separately.

Capacity (ml)	Closure type	Type	Packed	Pk	Cat. No.	Price (£)
Conical bottom centrifuge tubes with flat cap						
15	Flat cap	Sterile	25 tubes/rack, 2 racks/pack, 10 packs/case	500	525-1069	37.38
50	Flat cap	Non sterile	Bulk	500	525-1072	46.43
50	Flat cap	Sterile	25 tubes/rack, 2 racks/pack, 10 packs/case	500	525-1074	61.60
50	Flat cap	Sterile	50/bag, 10 bags/case	500	525-1075	54.56

Non-TC
treated flasks
available



Cell culture flasks, non treated or treated

CELL CULTURE FLASKS TREATED, STERILE VWR, PART OF AVANTOR

Cell and tissue culture flasks are perfect for cell growth.

- Available with five different growth areas
- Flask surface is flat and free from striation to maximise usable growth area
- Innovative angled neck design offers good pipette and cell scraper access
- Triangular top with wide base provides stability
- Easy stacking
- Frosted area near the neck for easy marking/writing
- Engraved graduations on multiple sides
- 100% integrity tested
- Sterilised by electron beam irradiation
- Free from DNase and RNase and non pyrogenic

TC treated: For optimal cell attachment and growth.

ISO 13485:2003 and ISO 9001:2008 certified.

Capacity (ml)	Surface	Growth area (cm ²)	Working volume (ml)	Closure type	Packed	Pk	Cat. No.	Price (£)
Flasks for adherent cells								
25	TC-treated	12,5	2,5 - 3,75	Vented cap	10 per bag/200 per case	200	734-2309	71.45
50	TC-treated	25,0	5 - 7,5	Vented cap	10 per bag/200 per case	200	734-2311	72.06
250	TC-treated	75,0	15 - 22,5	Vented cap	5 per bag/100 per case	100	734-2313	52.73
600	TC-treated	182,0	36,4 - 54,6	Vented cap	5 per bag/40 per case	40	734-2315	35.62
850	TC-treated	300,0	60 - 90	Vented cap	3 per bag/18 per case	18	734-2600	47.22

New Cell Culture Media Range !



CELL CULTURE MEDIA, DULBECCO'S MODIFIED EAGLES MEDIUM (DMEM)
VWR LIFE SCIENCE

Dulbecco's Modified Eagle Medium (DMEM) is designed to preserve and maintain the growth of a broad spectrum of mammalian cell types.

- Suitable for most cell types
- Available in a broad variety of formulations
- Also available with stable glutamine (L-Alanyl-L-Glutamine) for a better shelf life

The DMEM low glucose has been developed for the culture of mouse embryonic cells.

DMEM with 1 g/L glucose, with L-glutamine, with sodium pyruvate

Cat. No.	392-0413	392-0414	392-0415	392-0416	392-0417	392-0407	392-0408	392-0409	392-0410	392-0411	392-0412
Calcium	Yes										
Glucose level	High					Low			Without		
Hepes						No				Yes	
L-Glutamine	No	Yes	No	Yes	No	Yes	No			Yes	
Magnesium											
Phenol red	Yes										
Sodium bicarbonate											
Sodium pyruvate	No		Yes								
Stable glutamine			Yes	No						Yes	No

Description	Pk	Cat. No.	Price (£)
DMEM high glucose			
DMEM with 4,5 g/L glucose, without L-glutamine, without sodium pyruvate	500 mL	392-0413	5.60
DMEM with 4,5 g/L glucose, with L-glutamine, without sodium pyruvate	500 mL	392-0414	5.75
DMEM with 4,5 g/L glucose, with stable glutamine, with sodium pyruvate	500 mL	392-0415	5.80
DMEM with 4,5 g/L glucose, with L-glutamine, with sodium pyruvate	500 mL	392-0416	5.60
DMEM with 4,5 g/L glucose, without L-glutamine, with sodium pyruvate	500 mL	392-0417	5.30
DMEM low glucose			
DMEM with 1 g/L glucose, with L-glutamine, with sodium pyruvate	500 mL	392-0407	5.60
DMEM with 1 g/L glucose, without L-glutamine, with sodium pyruvate	500 mL	392-0408	5.06
DMEM F12			
DMEM F-12, without L-glutamine, without HEPES	500 mL	392-0409	6.95
DMEM F-12, without L-glutamine, without HEPES, without glucose	500 mL	392-0410	8.30
DMEM F-12, with stable glutamine, with 15 mM HEPES	500 mL	392-0411	8.30
DMEM F-12, with L-glutamine, with 15 mM HEPES	500 mL	392-0412	8.30

CELL CULTURE MEDIA, RPMI 1640

VWR LIFE SCIENCE

RPMI are general-purpose enriched media. Originally formulated for suspension cultures and monolayer cultures of human leukemic cells.



RPMI 1640 without L-Glutamine
with 25 mM Hepes

- RPMI media are 'multipurpose' enriched media providing extensive applications for a broad spectrum of mammalian and hybridoma cells including:
- Human myeloma
- Mouse hybridoma
- Human leukocytes
- B and T lymphocytes

Calcium	Yes			
Cat. No.	392-0426	392-0427	392-0428	392-0429
Hepes	Yes		No	
L-Glutamine	Yes	No	Yes	No
Magnesium	Yes			
Media Base	RPMI 1640 - Roswell Park Memorial Institute Medium			
Phenol red	Yes			
Sodium bicarbonate	No			
Sodium pyruvate	No			
Stable glutamine	No	Yes	No	

Description	Pk	Cat. No.	Price (£)
RPMI 1640 with L-Glutamine with 25 mM Hepes	500 mL	392-0426	4.80
RPMI 1640 with stable Glutamine	500 mL	392-0427	4.60
RPMI 1640 with L-Glutamine	500 mL	392-0428	4.40
RPMI 1640 without L-Glutamine	500 mL	392-0429	4.40



Cell culture media, Minimum Essential Medium (MEM)



McCoy's 5A with L-Glutamine

CELL CULTURE MEDIA, MINIMUM ESSENTIAL MEDIUM (MEM)

VWR LIFE SCIENCE

Minimum Essential Medium (MEM) with Earle's Balanced Salts is a modification of Eagle's earlier Basal Medium (BME) which contains a higher concentration of essential nutrients. These media promote the growth of a variety of normal and transformed cells. Since they contain Earle's Balanced Salts, they are suitable for use in atmospheres charged with CO₂ gas.

Cat. No.	392-0422	392-0423	392-0424
Calcium	Yes		
Hepes	No		
L-Glutamine	Yes	No	
Magnesium	Yes		
Media Base	MEM/EBSS - Minimum Essential Medium with Earle's Balanced Salts		
Phenol red	Yes		
Sodium bicarbonate	No		
Sodium pyruvate	No		
Stable glutamine	No		

Description	Pk	Cat. No.	Price (£)
MEM with Earle's salts with L-glutamine	500 mL	392-0422	4.60
MEM with Earle's salts without L-glutamine with NEAA	500 mL	392-0423	4.60
MEM with Earle's salts without L-glutamine	500 mL	392-0424	4.60

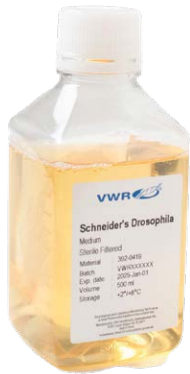
CELL CULTURE MEDIA, MCCOY'S 5A MEDIUM

VWR LIFE SCIENCE

McCoy's media were originally formulated for growth and support of lymphocytes. This final modification produced a medium identical to RPMI 1629. McCoy's 5A media supports the indefinite proliferation of Walker 256 carcinoma cells. In addition, it is excellent for the propagation of leukocytes, biopsy tissues, a broad range of human and rat normal or transformed cell types, the most current primary and continuous cell lines.

Calcium	Yes
Hepes	No
L-Glutamine	Yes
Magnesium	Yes
Media Base	McCoy's 5A Medium
Phenol red	Yes
Sodium bicarbonate	Yes
Sodium pyruvate	No
Stable glutamine	No

Description	Pk	Cat. No.	Price (£)
McCoy's 5A with L-Glutamine	500 mL	392-0420	11.40



Schneider's Drosophila medium

CELL CULTURE MEDIA, SCHNEIDER'S DROSOPHILA MEDIUM
VWR LIFE SCIENCE

Schneider's Drosophila medium promotes rapid growth of both primary and existing cell cultures derived from *Drosophila spp* and several other dipterans when supplemented with 5 to 20% heat-inactivated foetal bovine serum.

Calcium	Yes
Hepes	No
L-Glutamine	Yes
Magnesium	Schneider's Insect Medium
Media Base	
Phenol red	No
Sodium bicarbonate	Yes
Sodium pyruvate	No
Stable glutamine	

Description	Pk	Cat. No.	Price (£)
Schneider's Drosophila medium	500 mL	392-0419	14.44



Ham's F12 with L-Glutamine

CELL CULTURE MEDIA, HAM'S F12
VWR LIFE SCIENCE

Ham's F12 was developed for growth of primary rat hepatocytes and rat prostate epithelial cells. Also used in a clonal toxicity assay using CHO cells. It is frequently used with supplements for serum-free cultures to support the growth of cells of rodent origin, or as a cloning medium for the culture of myeloma and hybrid cells.

Calcium	Yes
Hepes	No
L-Glutamine	Yes
Magnesium	Ham's F12 Nutrient Mixture
Media Base	
Phenol red	
Sodium bicarbonate	Yes
Sodium pyruvate	
Stable glutamine	No

Description	Pk	Cat. No.	Price (£)
Ham's F12 with L-Glutamine	500 mL	392-0418	7.35



Seradigm FB essence



AVANTOR FB ESSENCE, US ORIGIN
SERADIGM

FB Essence is a US origin foetal bovine serum (FBS) alternative that can be used in place of FBS in many cell culture applications. It contains foetal bovine serum, bovine calf serum and equine serum, plus a proprietary blend of supplements including vitamins, minerals and various growth factors.

- 100% US origin
- Cost effective alternative to FBS
- Effective across a broad range of cell types

Endotoxin	≤20 EU/ml
Haemoglobin	≤25 mg/dl

Description	Serum format	Sterility	Pk	Cat. No.	Price (£)
FB Essence, heat inactivated	Frozen	Sterile filtered	500 ml	10799-390	96.05

New Products!



Lymphocyte separation media

LYMPHOCYTE SEPARATION MEDIA VWR LIFE SCIENCE

Lymphocyte separation media is a density gradient medium for the isolation of mononuclear cells from peripheral blood, cord blood and bone marrow.

- Like Ficoll™, VWR lymphocyte separation media has:
- An optimised density of 1,077 g/ml
- Granulocytes and erythrocytes will sediment under the media layer
- Mononuclear cells will be isolated to top of the layer

Designed for a simple, rapid isolation by centrifugation of lymphocytes from whole blood, once diluted and treated with anti-coagulant or defibrinating agent.

Description	Pk	Cat. No.	Price (£)
Lymphocyte separation media	100 mL	392-0431	15.20



Dulbecco's phosphate buffered saline, without calcium, without magnesium (liquid)

CELL CULTURE SALT SOLUTIONS, DULBECCO'S PHOSPHATE BUFFERED SALINE (DPBS) VWR LIFE SCIENCE

DPBS is commonly used salt solution in cell enumeration as a diluent, for rinsing cells and as a buffer in many chromatographic procedures. DPBS is also used in FACS (Fluorescence-Activated Cell Sorting) process to wash and re-suspend cells during the dissociation process, as well as for many analytical methods or biochemical treatments.

For applications where Ca^{2+} and Mg^{2+} ions interfere with enzyme activity (e.g. Trypsin), DPBS is:

- Without calcium
- Without magnesium
- Without Phenol Red

Description	pH value	Pk info	Pk	Cat. No.	Price (£)
Dulbecco's phosphate buffered saline, without calcium, without magnesium (liquid)	7,3	1x 500 ml	500 mL	392-0434	4.80
Dulbecco's phosphate buffered saline, 10X, without calcium, without magnesium (liquid)	6,8	1x500 ml	500 mL	392-0440	6.90



WATER, CELL CULTURE GRADE PYROGEN-FREE VWR LIFE SCIENCE

Cell culture water is high quality water suitable for use as a solvent in the preparation of cell culture media and laboratory reagents.

- Pyrogen-free

Suitable for dissolving dry powder cell culture media in accordance to the technical data sheet.

The product is intended to be used in vitro, in laboratory only. Do not use it in therapy, human or veterinary applications.

Description	Pack type	Pk	Cat. No.	Price (£)
Water, Cell Culture Grade pyrogen-free	Plastic bottle	500 mL	392-0439	4.20



GrowDex® Hydrogel

GROWDEX® HYDROGEL
UPM BIOMEDICALS

GrowDex® Hydrogel is a bio-friendly hydrogel extracted from birch and sourced from sustainable and responsibly managed forests. GrowDex® is a ready to use hydrogel that mimics the extracellular matrix (ECM), supporting cell growth and differentiation with consistent results. The versatility of GrowDex® has seen it used in numerous applications ranging from 3D cell culture and organ-on-a-chip models, through to drug release studies and 3D printing. GrowDex® is ideal for these and other applications due to its unique properties.

- Animal-free: Xeno-free with no detectable endotoxins, GrowDex® is pH neutral and supplied in a user friendly syringe for convenience and ease of use
- Ready to use: No cross-linking, no gelation, no sonication or any other steps required prior to use - just mix with media and cells, dispense and incubate
- Biocompatible: Nanofibrillar network allows easy diffusion of small molecules, such as nutrients and oxygen, supporting the culture of various cell types
- Microscope and imaging compatible: GrowDex® is not auto-fluorescent, is compatible with microscope and cell imaging systems and can be used for brightfield, phase contrast or fluorescence image capture
- Room temperature stable: Stored, shipped and used at room temperature, this stable hydrogel eliminates the need for temperature control, costly transportation and is ideal for use in liquid handling system for the automation of any cell-based assay
- Reproducible lots: Raw material supply, production procedures and quality control checks ensure that GrowDex® is manufactured reproducibly to the highest standards
- Tunable viscosity: The viscosity "stiffness" of GrowDex® can be tuned by dilution with media

Description	Pk	Cat. No.	Price (£)
GrowDex®, 2.5 ml syringe	1	100.103.002	107.10

PROTEOMICS



Other pack sizes
and formats
available

PROchievA protein A, lab column, 1 ml

AFFINITY CHROMATOGRAPHY COLUMNS, J.T.BAKER® BAKERBOND® PROCHIEVA™ RECOMBINANT PROTEIN A RESIN AVANTOR®

The J.T.Baker® BAKERBOND® PROchievA™ recombinant protein A resin offers superior dynamic binding capacity with excellent alkaline stability linked to Avantor's proprietary ligand.

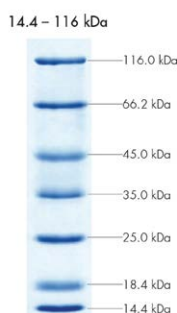
The new protein A resin is designed for high-performance in the critical affinity chromatography step used in the purification of mAbs, Fc fusion proteins, and other similar IgG-like molecules.

Designed and manufactured by Avantor to the high standards established for our J.T.Baker® brand chemicals, BAKERBOND® PROchievA™ recombinant protein A resin can be used with other J.T.Baker® BAKERBOND® resins to enhance the separation power of your chromatography process steps.

Available in conveniently-packaged 1 ml and 5 ml lab columns designed for direct connection to many popular chromatography instruments including GE ÄKTA™ and Bio-Rad NGC™.

Binding capacity	FIO (Target > 65 mg/mL)
Storage	+2...+8 °C

Description	Capacity (ml)	Pk	Cat. No.	Price (£)
BAKERBOND® PROchievA™ protein A resin, lab column, box of 1	1	1	C789-11	153.85
BAKERBOND® PROchievA™ protein A resin, lab column, box of 1	5	1	C789-18	596.70



8 – 16 % SDS-PAGE

Protein marker I

PROTEIN MARKER I (UNSTAINED), PEQGOLD VWR PEQLAB

peqGOLD Protein Marker I is a mixture of seven purified proteins which are re-dissolved 'ready to use' in loading buffer. The proteins resolve into sharp, tight bands in the range of 14.4 to 116.0 kDa when analysed by SDS-PAGE and stained with Coomassie Brilliant Blue R-250.

Mini gel application: 5 to 10 µl/well

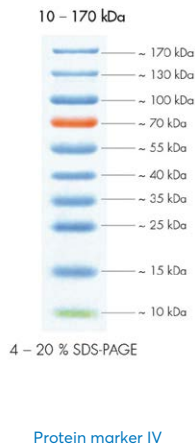
Standard gel application: 10 to 20 µl/well

peqGOLD Protein Marker I is optimised for runs on 12% SDS polyacrylamide gels. 8 to 10% gels may cause proteins with low molecular weights to migrate with the dye front. On 12 to 15% and gradient gels all bands are visible.

The marker is optimised for use with Coomassie Brilliant Blue R-250, but can also be used with other gel staining methods (e.g. silver staining). As this method is 10 to 100 times more sensitive than Coomassie Blue staining, the amount of marker applied should be decreased accordingly.

peqGOLD Protein Marker I contains 2% SDS and is, therefore, not recommended to be used in native polyacrylamide gels for determining native molecular weights of proteins.

Description	Pk	Cat. No.	Price (£)
Protein Marker I (unstained, ready to use), 2x1000 µl, sufficient for 400 mini gels or 200 standard gels	1 KIT	27-1010	38.92



PROTEIN MARKER IV (PRE-STAINED), PEQGOLD VWR PEQLAB

peqGOLD pre-stained protein marker IV is a mixture of 10 recombinant, highly purified coloured proteins supplied 'ready to use' in loading buffer. The protein concentrations are optimised to yield well-defined bands directly visible in SDS-polyacrylamide gels.

- Comprises of 10 fragments: ~180, ~130, ~95, ~72, ~55, ~43, ~34, ~26, ~15 and ~10 kDa

Eight of the 10 proteins, ranging in apparent molecular weight from approximately 10 to 170 kDa, are coupled with a blue chromophore and resolve into clearly defined, sharp bands when analysed by SDS-PAGE. A 72 kDa protein is coupled with an orange dye and serves as a reference band. The 10 kDa band is green for easier orientation.

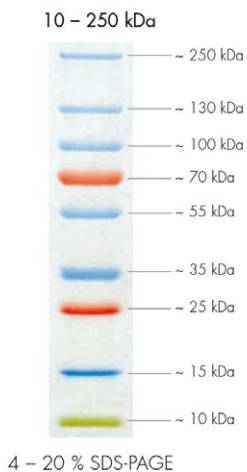
The protein marker can be used for approximate size estimation of unknown proteins, however, for precise determination of molecular weights the use of 'unstained' protein markers is recommended. The pre-stained marker is ideal for monitoring the progression of the gel run and Western transfer efficiency.

peqGOLD Protein Marker IV is optimised for runs on 4 to 20% SDS polyacrylamide gels. 8 to 10% gels may cause proteins with low molecular weights to migrate with the dye front.

Covalently-coupled chromophores affect protein mobility. peqGOLD pre-stained protein marker should be used only for approximate molecular weight determination.

peqGOLD Protein Marker IV contains 2% SDS and is, therefore, not recommended to be used in native polyacrylamide gels for determining native molecular weights of proteins.

Description	Pk	Cat. No.	Price (£)
Protein Marker IV (pre-stained, ready to use), 2x250 µl, sufficient for 100 mini gels or 50 standard gels	1 KIT	27-2110	86.21

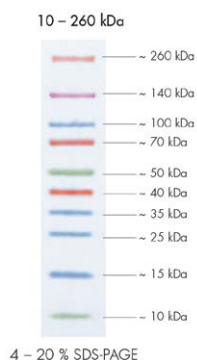


PROTEIN MARKER V (PRE-STAINED), PEQGOLD VWR PEQLAB

Protein Marker V (pre-stained) for monitoring protein separation, transfer efficiency and size determination.

- Mix of nine recombinant proteins
- Covalently pre-stained by using one of three different dyes
- Range: 10 to 250 kDa
- Concentration: 100 to 200 ng/µl each protein
- Ready to use for a fast, convenient workflow

Description	Pk	Cat. No.	Price (£)
Protein Marker V (pre-stained, ready to use), 2x250 µl, sufficient for 50 lanes	1	27-2210	89.06



Protein marker VI

PROTEIN MARKER VI (PRE-STAINED), PEQGOLD VWR PEQLAB

peqGOLD pre-stained Protein Marker VI is a mixture of 10 coloured proteins. These proteins are recombinantly produced in *E.coli*, highly purified and supplied 'ready to use' in loading buffer. The protein concentrations are optimised to yield well-defined bands directly visible in SDS polyacrylamide gels.

– Comprises of 10 fragments: ~260, ~140, ~95, ~72, ~52, ~44, ~34, ~26, ~17 and ~10 kDa

Four of the 10 proteins, with an apparent molecular weight of approximately 100, 35, 25 and 15 kDa, are coupled with a blue chromophore, whereas three proteins at 260, 70 and 40 kDa appear orange. Additionally two proteins at 50 and 10 kDa are labelled green, and one 140 kDa protein is coupled with a pink dye. All proteins resolve into clearly defined, sharp bands when analysed by SDS-PAGE.

This protein marker can be used for approximate size estimation of unknown proteins, however, for precise determination of molecular weights, the use of 'unstained' protein markers is recommended. The pre-stained marker is ideal for monitoring the progression of the gel run and the Western transfer efficiency.

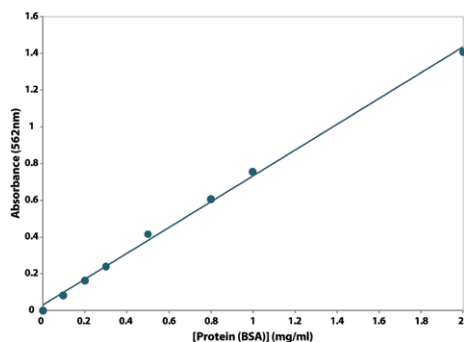
Description	Pk	Cat. No.	Price (£)
Protein Marker VI (pre-stained, ready to use), 2x250 µl, sufficient 100 mini gels or 50 standard gels	1 KIT	27-2310	108.30



PROTEIN QUANTITATION ASSAY KITS, CB™ PROTEIN ASSAY G-BIOSCIENCES

CB™ Protein Assay, a Coomassie dye based protein assay based on the Bradford Protein Assay, is suitable for the simple and rapid estimation of protein concentration. The binding of protein to the dye results in a colour change from brown to blue. The change in colour density is proportional to protein concentration. Protein estimation can be performed using as little as 0,5 µg protein.

Description	Pk	Cat. No.	Price (£)
CB™ (Coomassie Blue) Protein Assay with albumin standard, 500 assays	500 Assays	733-1995	90.06



BICINCHONINIC ACID (BCA) PROTEIN ASSAY G-BIOSCIENCES

The Bicinchoninic Acid (BCA) Protein Assay is a highly sensitive colorimetric assay that is compatible with detergent solubilised protein solutions.

The Bicinchoninic Acid (BCA) Protein Assay primarily relies on two reactions. Firstly, the peptide bonds in the protein sample reduce Cu^{2+} ions, in a temperature dependent reaction, from the copper solution to Cu^+ . The amount of Cu^{2+} reduced is proportional to the amount of protein present in the solution. Next, two molecules of bicinchoninic acid (BCA) chelate with each Cu^+ ion, forming a purple-coloured product that strongly absorbs light at a wavelength of 562 nm that is linear for increasing protein concentrations between the range of 0,02 to 2 mg/ml. The amount of protein present in a solution can be quantified by measuring the absorption spectra and comparing with protein solutions with known concentrations.

The Bicinchoninic Acid (BCA) Protein Assay is suitable for quantifying protein solutions in 1 ml cuvettes or in microwells.

Description	Pk	Cat. No.	Price (£)
Bicinchoninic Acid (BCA) Protein Assay, 500 assays or 2500 microassays (with BSA protein standard)	1 KIT	786-570	154.62



Bicinchoninic Acid (BCA) Reducing Agent Compatible Protein Assay

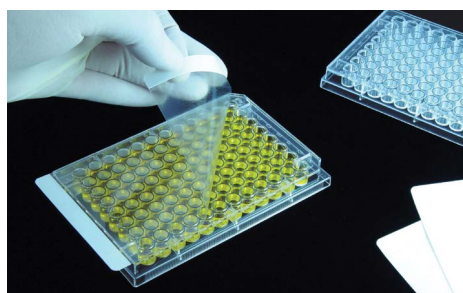
BICINCHONINIC ACID (BCA) REDUCING AGENT COMPATIBLE PROTEIN ASSAY G-BIOSCIENCES

The Bicinchoninic Acid (BCA) Protein Assay is a highly sensitive colorimetric assay that is compatible with detergent solubilised protein solutions, however is dramatically affected by the presence of reducing agents, including DTT, β -mercaptoethanol and TCEP.

The Bicinchoninic Acid (BCA) Reducing Agent Compatible Protein Assay is supplied with the Reducing Agent Compatibility Agent (RACA) that modifies reducing agents to limit their effect on the reduction of the assay's copper ions, preventing inhibition of the assay. The use of RACA allows for samples containing up to 5 mM DTT, 10 mM TCEP or 35 mM β -mercaptoethanol.

The Bicinchoninic Acid (BCA) Reducing Agent Compatible Protein Assay is suitable for quantifying protein solutions in 1 ml assays or in microwells. The kit is suitable for up to 250x1 ml assays.

Description	Pk	Cat. No.	Price (£)
Bicinchoninic Acid (BCA) Reducing Agent Compatible Protein Assay (with non-animal protein standard)	250 Assays	786-892	263.30



POLYESTER FILMS FOR ELISA AND GENERAL INCUBATION VWR, PART OF AVANTOR

Storage, assay, microplates and seals

These 77,5 μ m thick polyester films provide secure sealing around every well, not just a cover, thus minimising evaporation, preventing spillage and well-to-well contamination, and eliminating 'edge effects' in sensitive ELISA assays. Polyester films can also be used with cell culture plates for short-term storage, incubation, and containment of biohazards.

- Functional temperature range from -40 to +120 °C
- Available sterile and non sterile
- Non pierceable

Description	Optical property	Sterile	Thickness (μ m)	LxW (mm)	Pk	Cat. No.	Price (£)
Sealing films, polyester, 2 tabs	Transparent	-	77,5	125,1x79,4	100	391-1250	29.70
Sealing films, polyester, 2 tabs	Transparent	+	77,5	125,1x79,4	100	391-1251	51.95



J.T.Baker® Plate 96 - round wells, polystyrene, clear, U-bottom

J.T.BAKER® PLATE 96 RITTER, PART OF AVANTOR

J.T.Baker® Plate 96 round well plates made from PS are ideal for ELISA applications.

- Alphanumeric coding assists with identification of samples
- Plate shape significantly reduces sample carryover
- Standardised dimensions (128x85 mm) ensure compatibility with most common laboratory machines

Description	Colour	Sterile	Well volume (ml)	Pk	Cat. No.	Price (£)
PS plates, U-bottom	Clear	-	0,3	100	43001-0117	59.91
PS plates, V-bottom	Clear	-	0,24	100	43001-0118	59.91
PS plates, F-bottom	Clear	-	0,35	100	43001-0119	66.80
PP plates, U-bottom	Transparent	-	0,3	64	43001-0600	42.80



J.T.Baker® plate 384 – square wells, 120 µl

J.T.BAKER® PLATE 384 RITTER, PART OF AVANTOR

Available in PP for automated screening and storage systems.

- Alphanumeric code to assist sample identification
- Square wells for increased volume
- V-bottom for high sample recovery
- High frame (3 mm) for stable and slip-free stacking
- Higher well rims avoid cross-contamination and allow better closure with adhesive films

J.T.Baker® Plate 384 is ideal for small sample volumes.

Description	Colour	Recommended working volume (µl)	Sterile	Well volume (µl)	Pk	Cat. No.	Price (£)
PP plates	Transparent	5 - 110	-	120	60	43004-0120	106.19
PP plates	Transparent	5 - 180	-	200	40	43004-0200	128.95



J.T.Baker® Plate Square Well - 2 ml / 96 wells

J.T.BAKER® PLATES, SQUARE WELL RITTER, PART OF AVANTOR

These deep square well plates, made from virgin PP, are designed to make the interchanging of plates simpler in automated systems. They are also ideal for housing both cell and bacterial culture.

- Chemical resistant
- V-bottom shape for 24- and 48-wells maximises liquid removal and aids resuspension
- U-bottom shape for 96 wells
- No inner edges to interfere with magnetic bead collection
- Raised well rims to improve heat sealing
- Conical base aids sample concentration, reconstitution and centrifugation

For a maximum capacity utilisation.

Description	Colour	Sterile	Well volume (ml)	Pk	Cat. No.	Price (£)
24-well plate	Transparent	-	10,0	20	43001-0066	67.68
48-well plate	Transparent	-	5,0	20	43001-0062	67.68
96-well plate	Transparent	-	2,0	20	43001-0020	60.16



J.T.Baker® Plate medio - 2 ml

J.T.BAKER® PLATE MEDIO RITTER, PART OF AVANTOR

PP, 96-well storage plate with conical wells.

- Due to the tangency of J.T.Baker® Plate Medio plates, less than 50% stacking space is needed
- Alphanumeric code to assist identification and registration of single samples
- Higher well rims allow an airtight seal
- Conical wells aid sample mixing

J.T.Baker® Plate Medio is perfectly made for limited storage areas (fridge).

Colour	Recommended working volume (µl)	Sterile	Well volume (ml)	Pk	Cat. No.	Price (£)
Transparent	50 - 1000	-	1,2	32	43001-0101	84.80
Transparent	20 - 500	-	0,65	40	43001-0102	105.60
Transparent	50 - 2000	-	2,3	20	43001-0103	60.16



Polystyrene assay plates, 96-well, glass bottom, black

POLYSTYRENE ASSAY PLATES, 96- AND 384- WELL VWR, PART OF AVANTOR

Manufactured with high quality crystal polystyrene. They are ideal for routine assays, mixing and storage.

- Flat bottom ideal for microscopic applications
- V-bottom minimises residual liquid
- U-bottom for optimising sample/cell collection

VWR assay plates are available in clear, white or black polystyrene, with clear bottom.

The bottom of the clear bottom plates is just 0,4 mm thick and extremely flat ($\pm 0,1$ mm tolerance), ensuring high measurement precision and elimination of read errors when performing cell-based assays using fluorescent or luminescent imaging. These tissue culture treated plates are supplied lidded and sterile, in individual bags.

The bottom of the glass bottom plates is 175 μ m thick, extremely flat with a tolerance of ± 15 μ m. They offer a higher performance than standard polystyrene plates for fluorescence assays, luminescence detection, scintillation counting and high resolution microscopy using confocal imaging.

Description	Colour	Well volume (μ l)	No. of wells	Sterile	Pk	Cat. No.	Price (£)
Clear plates							
V-bottom	Clear	200	96	+	100	732-3725	140.42
U-bottom	Clear	270	96	+	100	732-3723	140.42
Flat bottom	Clear	350	96	+	100	732-3724	140.42
Clear bottom plates							
Flat bottom, with lid, TC treated	Black	350	96	+	100	732-3737	398.06
Flat bottom, with lid, TC treated	White	350	96	+	100	732-3740	415.91
Flat bottom, with lid, TC treated	White	120	384	+	100	732-3749	624.75
Flat bottom, with lid, TC treated	Black	120	384	+	100	732-3750	589.05
Glass bottom plates							
Flat bottom, with lid	Black	350	96	+	10	732-3743	129.12
Flat bottom, with lid	White	350	96	+	10	732-3744	186.83
Flat bottom, with lid	Black	120	384	+	10	732-3746	146.97
Flat bottom, with lid	White	120	384	+	10	732-3748	158.27



Immunoassay microplates

IMMUNOASSAY MICROPLATES AND STRIPS VWR, PART OF AVANTOR

Designed specifically for immunoassay applications.

- Available in 96-well or strip plate format
- Flat bottom for optimal detection
- High quality crystal polystyrene
- Medium binding: 100 to 200 ng IgG/cm²
- High binding: 400 to 500 ng IgG/cm²
- 96-well plate or 8-well strips in 12x8 frame

Highly pure polystyrene microplates designed and optimised specifically for affinity binding assays such as ELISA's. These plates have binding surfaces that include high and medium binding.

Case of 50.

Description	Colour	Well volume (μ l)	Pk	Cat. No.	Price (£)
Microplates, 96-well					
96-well plate, high binding	Clear	400	50	732-3726	354.03
96-well plate, medium binding	Clear	400	50	732-3727	354.03
Strip plates					
Strip plate, 12x8, high binding	Clear	360	50	732-3751	319.52
Strip plate, 12x8, medium binding	Clear	360	50	732-3752	319.52

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Introducing J.T.Baker® premium robotic liquid handling tips from Avantor®



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- Designed and validated for the world's most popular robotic workstations
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- Manufactured in ISO 9001 and ISO 13485 certified facilities
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The precision you want for the results you need, faster: Buy J.T.Baker robotic tips now.

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 **avantor**™



Leica DMi1 inverted microscope

INVERTED LED MICROSCOPES, DMi1

LEICA

Get what you need and increase efficiency in your live cell imaging workflow with the Leica DMi1 inverted microscope.

Easy to use operation that requires minimal training and maintenance so you can fully concentrate on your research. Easy phase contrast - 10 \times , 20 \times and 40 \times objectives share the same light ring so you no longer need to change the ring with the objective. Cool, colour safe LED illumination for constant colour temperature through all stages of intensity.

Optional HD imaging - connect the HD camera directly to a monitor or PC; providing high quality publication images.

Field of view: 20 mm except for DMi1 package 2 which has 18 mm.

UK plug must be included with purchase (630-3152)

Model	DM i1 package 6	DM i1 package 1	DM i1 package 2	DM i1 package 3
Eyeieces	2 exchangeable eyepieces 10 \times /20 eyepiece with eyeguard and 10 \times /20 focusing eyepiece with eyeguard		Fixed eyepieces	2 exchangeable eyepieces 10 \times /20 eyepiece with eyeguard and 10 \times /20 focusing eyepiece with eyeguard
Working distance	80 mm	40/50 mm	80 mm	
Condenser	S40 [4-position slider for S40 condenser (BF, Ph0, Ph1, Ph2)]		S80 (BF, Ph1) [2-position slider for S80 condenser (BF, Ph1)]	
Illumination	LED			
Camera	FLEXACAM C1 (12 MP) with multiple ports (HDMI, USB, Ethernet)		No connection port	

Description	Type	Model	Illumination	Additional features	Pk	Cat. No.	Price (£)
Packages							
Leica DMi1 with 4 objectives and FLEXACAM camera, dust cover	Binocular inverted	DMi1 package 6	LED	4 objectives (HI-plan 4x/0,10 Ph0, HI-plan I 10x/0,22 Ph1, HI-plan I 20x/0,30 Ph1, HI-plan I 40x/0,50 Ph1)	1	630-3436	4,555.68
Leica DMi1 with 3 objectives for brightfield and phase contrast, dust cover	Binocular inverted	DMi1 package 1	LED	3 objectives (HI-plan 4x/0,10 Ph0, HI-plan I 10x/0,22 Ph1, HI-plan I 20x/0,30 Ph1)	1	630-3434	2,694.63
Leica DMi1 with 3 objectives for brightfield and phase contrast, dust cover	Binocular inverted	DM i1 package 2	LED	3 objectives (HI-plan 4x/0,10, HI-plan 10x/0,22 Ph1, HI-plan 20x/0,30 Ph1)	1	630-3108	1,895.56
Leica DMi1 with 3 objectives for brightfield and phase contrast, dust cover	Binocular inverted	DMi1 package 3	LED	3 objectives (HI-plan 4x/0,10 Ph0, HI-plan I 10x/0,22 Ph1, HI-plan I 20x/0,30 Ph1)	1	630-3435	2,633.91



UPRIGHT MICROSCOPE, DM300

LEICA

The Leica DM300 compound microscope is compact, maintenance-free and easy to use to provide trouble-free operation each day.

Equipped with a mechanical stage to accommodate two specimen slides and labelled Abbe condenser, the DM300 can be configured with rotatable monocular, binocular, or trinocular tubes for shared viewing and easy storage.

The trinocular tube features a 50%/50% camera/eyetube split.

Power cord is not included (please order separately using product code 630-3152). 2 year warranty.

Microscope DM300, set 1: Brightfield 3 objective Achromat monocular standard outfit, right hand stage stand with 4-position nosepiece.

Microscope DM300, set 2: Brightfield 4 objective Achromat Monocular Standard Outfit includes DM 300 right hand stage

stand with 4-position nosepiece, universal power supply, mechanical stage with slide holder, pre-centred and pre-focused Abbe condenser.

Microscope DM300, set 3: 30° viewing angle, with stand, mechanical stage, Abbe condenser, 4 achromatic objectives (4×, 10×, 40×, 100×), EZ tube with 10×/18 eyepiece and pointer in the right eyepiece, EZLITE LED illumination and dust cover.

Microscope DM300, set 4: Brightfield 4 objective plan binocular standard outfit includes DM 300 right hand stage stand with 4-position nosepiece, universal power supply, mechanical stage with slide holder, pre-centred and pre-focused Abbe condenser.

Microscope DM300, set 5: 30° viewing angle, with stand, mechanical stage, Abbe condenser, 4 achromatic objectives (4×, 10×, 40×, 100×), EZ tube with 10×/18 eyepiece and pointer in the right eyepiece, EZLITE LED illumination and dust cover.

Model	DM300		
Observation method	Brightfield		
Head	30° inclined		
Eyepieces	10×/18 mm with pointer adjustment		
Nosepiece	Quadruple		
Stage	143×132 mm (movement: 76×50 mm), with specimen holder for 2 standard slides	143×132 mm (movement: 76×50 mm), with specimen holder for two standard slides	143×132 mm (movement: 76×50 mm), with specimen holder for 2 standard slides
Focusing system	Coaxial coarse and fine knobs		
Illumination	Leica EZLite™ LED		
W×D×H	182×257×380 mm		
Weight	6,5 kg		

Type	Model	Pk	Cat. No.	Price (£)
Monocular	DM300, set 1	1	630-3238	412.34
Monocular	DM300, set 2	1	630-3239	522.19
Binocular	DM300, set 3	1	630-3105	662.81
Binocular	DM300, set 4	1	630-3240	848.73
Trinocular	DM300, set 5	1	630-3393	250.56



VWR ULT Freezer

Site survey required with this product

ULT FREEZERS, ECO PREMIUM
VWR, PART OF AVANTOR

VWR® ULT Eco Premium freezers are designed for safe and reliable storage of sensitive samples. They feature ergonomic control and low energy consumption.

- Maximum 2" box capacity: 352/528
- Energy star certified
- Temperatures between -86 and -50 °C
- Long warm up time (warm up time from -86 and -50 °C: 360 min)
- Highly efficient VIP insulation and long lasting rust proof sample chamber
- Green refrigerants
- USB and Ethernet interface for data transfer

VWR® ULT Eco Premium freezers have a stainless steel inner chamber, flexible rack configuration and are further characterised by low energy consumption and electricity costs. A variety of accessories are available, these must be ordered separately.

Model	VWR ULT Freezer 352 Eco Premium	VWR ULT Freezer 528 Eco Premium
Access ports	2	
Door lock	Yes, with key lock	
Door type	2 outer doors, 4 inner compartments	
Electrical	230 V, 50 Hz	
Noise level	47 db(A)	
Shelves/drawers	3 adjustable shelves	
Weight	247 kg	288 kg

Description	Pk	Cat. No.	Price (£)
VWR ULT freezer 352 Eco Premium	1	471-1252	6,413.00
VWR ULT freezer 528 Eco Premium	1	471-1253	7,177.50



ZX 3

VORTEX MIXER ZX3
VELP SCIENTIFICA

Vortex mixers with epoxy painted aluminium die-cast housing that provides good chemical resistance. Four feet give stability on the bench.

- ZX3 features two modes - manual or continuous, speed can be adjusted from 0 to 3000 min⁻¹
- The maximum vibration speed may be lower when adding on additional accessories (max. 800 rpm), as high vibration speed may cause the sample to spill or the tube to fly out

IP Protection Class according to DIN EN 60259: IP 20

Model	ZX3
Input power (W)	15
Orbital Ø (mm)	4,5
Shaking motion	Orbital
Speed range (min ⁻¹)	0 - 3000
Weight (kg)	2,7
WxDxH (mm)	150x165x130

Description	Pk	Cat. No.	Price (£)
ZX3 vortex mixer	1	444-2000	119.54



pH/mV/°C METER, BENCH, PHENOMENAL® pH 1100 L VWR, PART OF AVANTOR

This user friendly instrument, with articulated electrode stand and IP 43-rated housing, provides high resolution and accuracy for precise measurements. Complete with USB output for connection to a computer. GLP compliant.

Ready to use pH 1100 L kit includes instrument, glass pH electrode with built-in 221 temperature sensor, 1 m cable and

articulated stand, 2x buffers (4,00 / 7,00), plastic beaker and instruction manual (22 languages) on CD ROM.

The life science kit pH 1100LB includes the LS 221 Biotech electrode with 1 m cable instead of the 221 electrode.

Model	pH 1100L	pH 1100LB
pH range	-2,000...+20,000	
pH resolution	0,1 / 0,01 / 0,001 (selectable)	
pH accuracy	±0,1 / ±0,01 / ±0,005	
pH calibration	Up to 5 points	
Automatic buffer recognition	VWR® Chemicals TITRINORM® buffers at 25 °C: 4,00 / 6,98 / 9,94 NIST / DIN 19266 (1,68 / 4,00 / 6,86 / 9,18 / 12,54) Technical buffers at 25 °C: 4,00 / 7,00 / 10,00	
mV range	±1200,0 / ±2500	
mV resolution	0,1 / 1 (selectable)	
mV accuracy	±0,3 / ±1	
Temperature range	Auto: -5,0...+105,0 °C; manual: -25...+130 °C	
Temperature resolution	0,1/1 °C	
Temperature accuracy	±0,2 °C	
Temperature compensation	Auto / manual	
Data logging capacity	5000 data sets	
Data logging - log function	Selectable between 1 min and 1 h (selectable intervals: 1 s, 5 s, 10 s, 30 s, 1 min, 5 min, 10 min, 15 min, 30 min, 60 min)	
Display	Graphic LCD with LED backlight	
Connections	BNC for pH / banana for temperature	
Power supply	Mains or 4x AA batteries	
Compliance	IP 43 / GLP	
Outputs	USB connection (slave, bidirectional)	

Description	Pk	Cat. No.	Price (£)
Bench pH/mV/°C meter pH 1100L, pHenomenal®, with 221 general purpose electrode	1 SET	662-1657	330.13
Bench pH/mV/°C meter pH 1100LB, pHenomenal®, with LS 221 electrode for biotech applications	1 SET	662-1861	451.51



THERMAL SHAKER, THERMAL SHAKE *LITE* VWR, PART OF AVANTOR

The combination of heating/cooling and shaking makes the Thermal Shake *lite* microtube shaking incubator ideal for many life science research applications in molecular biology, biochemistry and clinical chemistry. Its compact footprint incorporates an intuitive control panel with large multicolour display, allowing users to easily program and view temperature, time and speed settings.

Model	Thermal Shake <i>lite</i>
Heating speed	6,5 °C/min
Orbit (mm)	3
Speed range (min ⁻¹)	300 - 1500
Temperature accuracy (°C)	±0,5
Temperature control range (°C)	14 below ambient to 100
Weight (kg)	8,5
W×D×H (mm)	330×166×240

Description	Pk	Cat. No.	Price (£)
Thermal Shake <i>lite</i>	1	460-0249	1,119.86

Description	For	No. of holes	Pk	Cat. No.	Price (£)
Heating blocks, aluminium, designed for 1,5 ml tubes					
Aluminium block	1,5 ml tubes	40	1	460-0250	136.47
Aluminium block	0,5 and 1,5 ml tubes	26 + 24	1	460-0255	167.78
Aluminium block	2,0 ml tubes	40	1	460-0256	136.63
Aluminium block	96-well ELISA plate	-	1	460-0257	167.78

Compatible
with bath
beads*



WATER BATHS, VWB2 SERIES VWR, PART OF AVANTOR

Unstirred water baths with double walled, stainless steel (inner) and coated steel sheet (outer) housing. All baths except the 2 litre models feature a drain tap for convenient emptying and are suitable for use with water or alternatively with heat transfer beads. Baths with a capacity of 5 litres or more have a heat transfer bead mode which is activated through the main menu. A drain stopper (plug) is supplied as an optional accessory to ensure heat transfer beads do not get stuck in the drain outlet. Note: Baths are classified Safety Class 1, allowing unattended operation.

Supplied with a hinged clear polycarbonate lid (the 2 litre models have an unhinged lid) and universal tray. A wide range of optional accessories are available.

Type	Temp. range (°C)	Temp. stability (°C)	Heating capacity (kW)	Capacity	Bath W×D×H (mm)	W×D×H (mm)	Weight (kg)	Pk	Cat. No.	Price (£)
VWB2 5	Ambient +5...99	±0,2	0,35	5 L	281×131×125	335×215×335	3,9	1	462-0556	270.75
VWB2 12	Ambient +5...99	±0,2	0,8	12 L	306×281×125	335×390×380	6,2	1	462-0557	294.50
VWB2 18	Ambient +5...99	±0,2	1,05	18 L	281×485×125	335×590×420	9,2	1	462-0558	322.05

WATER BATH STABILISER, AQUA RESIST WB VWR CHEMICALS

A ready to use, liquid product designed to stabilise and protect water baths, cooling circuits, water circuits and incubators.

- Working temperature up to 70 °C
- Non corrosive for conventional materials
- Low foaming
- Blue dye for visualisation



Water bath protection

Description	For	Pk	Cat. No.	Price (£)
AQUA RESIST WB	Water baths, cooling circuits, water circuits and incubators	5 L	86174.360	26.50



VWR VENTI-Line® 112 prime



VWR INCU-Line® IL 112 prime incubator

DRYING OVENS WITH FORCED CONVECTION, VENTI-LINE® PRIME

VWR, PART OF AVANTOR

VENTI-Line® drying ovens are designed for all standard drying and tempering tasks as well as sterilising glassware. They have a temperature range between 50 to 300 °C and are intended for use in biological, chemical, medical, pharmaceutical and physical laboratories.

- Multifunctional microprocessor controller with 4,3" full colour touch screen
- Five user program memory
- Five segment temperature-time profile, quick change of set temperature and set time during a running program
- Scheduled program start (set of date and time) and 'Loop' function up to 255 times or endless
- Adjustable hold at set point time for temperature from 1 min to 366 days or continuous operation
- Fan speed control (10 to 100%, adjustable in increments of 1%) and adjustable ramp times (days/hours/minutes)
- Over temperature protection class 3.1
- Automatic air flap control (0% - closed, 100% - open, adjustable in increments of 1%)

Supplied with stainless steel wire shelves, manufacturer test certificate (data measured at 105 °C) and multilingual instruction manual (can be downloaded from internal memory onto USB stick).

Model	VL 56 Prime
Temperature range (°C)	50...300
Capacity	56 L
Convection type	Forced convection
Shelves supplied (max.)	2 (5)
Max. load per shelf (kg)	25
Max. chamber capacity	50 kg
Int. WxDxH	400x360x390 mm
Ext. WxDxH	590x600x700 mm
Nominal power consumption (W)	1700
Weight (kg)	53
Temperature fluctuation (time) (°C)	±0,2 at 150 °C
Temperature variation (spatial) (°C)	±2,0 at 150 °C

Description	Pk	Cat. No.	Price (€)
VWR VENTI-Line® 56 Prime	1	466-0603	1,154.37

INCUBATORS WITH NATURAL CONVECTION, INCU-LINE® PRIME

VWR, PART OF AVANTOR

INCU-Line® microbiological incubators are designed to cultivate organisms at homogeneous temperatures. They have a temperature range of 5 °C above ambient to 100 °C and can, for instance, be used for microbiological tests, germ count determination and ageing/heated storage.

- Multi-functional microprocessor controller with 4,3" full colour touch screen
- Five user program memory
- Five-segment temperature-time profile, quick change of set temperature and set time during a running program
- Scheduled program start (set of date and time) and loop function up to 255 times or endless
- Adjustable hold at set point time for temperature from 1 min to 366 days or continuous operation
- Adjustable ramp times (days/h/min)
- Over-temperature protection class 3.1
- Automatic air flap control (0% - closed, 100% - open, adjustable in increments of 1%)

Supplied with stainless steel wire shelves, manufacturer test certificate (data measured at 37 °C) and multilingual instruction manual (can be downloaded from internal memory onto a USB stick).

Model	IL 56 Prime
Temperature range (°C)	Ambient +5...100
Temperature fluctuation (time) (°C)	±0,2 (at 37 °C)
Temperature variation (spatial) (°C)	±0,7 (at 37 °C)
Capacity	56 L
Convection type	Natural convection
Shelves supplied (max.)	2 (5)
Max. load per shelf (kg)	25
Int. WxDxH	400x360x390 mm
Ext. WxDxH	590x600x700 mm
Nominal power consumption (W)	450
Weight (kg)	54
Max. chamber capacity	50 kg

Type	Pk	Cat. No.	Price (€)
INCU-Line® IL 56 Prime incubator	1	390-1346	854.39



Cooled Incubators, INCU-Line®



INCU-Line IL 10

COOLED INCUBATORS, INCU-LINE® VWR, PART OF AVANTOR

These compressor-cooled incubators with forced air convection provide a temperature range between 3 to 70 °C. Featuring a stainless steel (DIN 1.4016) inner chamber and powder coated sheet exterior. These models have an intuitive menu, USB interface for data download to USB stick, and can be connected to LAN network.

- Multi-functional microprocessor controller with 4,3" full colour touch screen
- Internal memory stores up to 10000 data records (stored for a maximum of 6 months)
- Five user program memory, quick and easy change of parameters during a running program
- Five-segment temperature-time profile and adjustable ramp times (days/hours/minutes)
- Timer from 1 min up to 366 days or continuous operation
- Scheduled program start (set of date and time) and loop function up to 255 times
- Adjustable over- and under-temperature safety thermostat Class 3.3 (DIN 12880) protects samples

Safety features include audible and visible temperature alarms, power failure control system, open door alarm, temperature sensor fail alarm and auto-diagnostic function.

Models are supplied with coated wire shelves, keys to the lock (2 pcs), Manufacturer test certificate at 37 °C, multilingual instruction manual (can be downloaded from internal memory on USB stick). The optional Premium Control Software (390-1323), is supplied on a USB stick so it can be uploaded onto a PC.

Model	IL 68R
Temperature range (°C)	3...70
Temperature fluctuation (time) (°C)	≤±0,1 at 37 °C
Temperature variation (spatial) (°C)	≤±0,3 at 37 °C
Capacity	68 L
Convection type	Compressor cooling and heating elements
Shelves supplied (max.)	2 (2)
Max. load per shelf (kg)	10
Max. chamber capacity	20 kg
Int. WxDxH	470×300×430 mm
Ext. WxDxH	570×680×660 mm
Nominal power consumption (W)	900
Weight (kg)	41

Type	Pk	Cat. No.	Price (€)
INCU-Line® IL 68R cooled incubator	1	390-1341	1,035.81

DIGITAL INCUBATORS, INCU-LINE®, IL 10, IL 23 AND IL 56 VWR, PART OF AVANTOR

IL 10, IL 23 digital incubators offer an economical and space saving solution for microbiology or haematology applications. The temperature can be freely adjusted in increments of 0,1 °C up to a maximum of 70 °C. Heating elements are incorporated into the housing base and walls to ensure temperature stability and uniformity.

Model	IL 10	IL 23
Temperature range (°C)	Ambient +5...70	
Temperature fluctuation (time) (°C)	±0,5 at 37 °C *	
Temperature variation (spatial) (°C)	±0,5 at 37 °C *	
Capacity	10 L	23 L
Convection type	Natural convection	
Max. load per shelf (kg)	3	
Int. WxDxH	230×220×200 mm	290×290×270 mm
Ext. WxDxH	285×280×335 mm	340×360×400 mm
Nominal power consumption (W)	70	160
Weight (kg)	8,3	12,8

Type	Shelves supplied (max.)	Pk	Cat. No.	Price (€)
INCU-Line® IL 10 with transparent window	1 (2)	1	390-0384	259.20
INCU-Line® IL 23 with transparent window	2 (3)	1	390-0482	330.87



Boost your sustainability with water recirculation

REFRIGERATED/HEATING CIRCULATORS, CORIO™ CD SERIES

JULABO

These powerful and robust CORIO™ laboratory circulators provide the exact temperature, absolute precision and a wide working temperature range. The CORIO™ CD controller is an advanced unit with professional technology for demanding applications and can be used for temperature control of internal or external applications. Max. flow rate/max. pressure:

CD: 15 L/min; 0,35 bar

Classification III according to DIN 12876-1

IP protection class according to DIN EN 60529: IP 21

An extensive range of accessories mean that the circulators can be modularly and individually adapted to applications.

Supplied with bath cover and two each barbed fitting for tubing 8 and 12 mm inner dia. (pump connections M16×1 male).

Note: Cooling capacity at +20; 0; -10; -20; -30 and -40 °C

Environmentally preferable attribute

Water Efficient

Type	Temp. range (°C)	Temp. stability (°C)	Heating capacity (kW)	Cooling capacity (kW)	Capacity	Bath W×D×H (mm)	W×D×H (mm)	Pk	Cat. No.	Price (£)
CD-200F	-20...+150	±0,03	2	0,22; 0,17; 0,13; 0,06; -; -	3 - 4 L	130×150×150	230×390×650	1	461-0883	2,591.81
CD-201F	-20...+150	±0,03	2	0,2; 0,16; 0,12; 0,06; -; -	3 - 4 L	130×150×150	440×410×440	1	461-0884	2,591.81
CD-300F	-25...+150	±0,03	2	0,31; 0,28; 0,2; 0,11; -; -	3 - 4 L	130×150×150	240×420×660	1	461-0885	2,835.13



Hotplate stirrer with ceramic plate

MAGNETIC HOTPLATE STIRRERS, PROFESSIONAL SERIES VWR, PART OF AVANTOR

Designed for applications requiring exceptional accuracy, stability, and repeatability these magnetic hotplate stirrers are equipped with superior heating and mixing capabilities. With temperature ranges up to 500 °C and stirring speeds reaching 1600 rpm, the VWR magnetic hotplate stirrers are equipped to handle any research, academic and industrial application. Available in two sizes.

Max. stirring capacity H ₂ O	13 L	10 L
Speed range (min ⁻¹)	60 - 1600	
Speed stability	±2%	
Temperature range (°C)	Ambient+5...500 °C	
Temperature stability	Top plate: ±1%>100 °C; ±1 °C ≤100 °C with temperature probe: ±0,5%>100 °C; ±1 °C ≤100 °C	
Plate material	Ceramic	
Plate dimensions	250×250 mm	180×180 mm
W×D×H (mm)	422×286×122	310×224×122
Weight (kg)	5,7	3,5
Electrical	230 V ±10%: 7.0 A, 1610 W	230 V ±10%: 6.0 A, 1380 W
Operating conditions	5...40 °C	
Timer	1 min to 99 h, 59 min	

Description	Pk	Cat. No.	Price (£)
Without Calibration Certificate traceable to NIST			
Hotplate stirrer with ceramic top, 250×250 mm	1	442-1266	831.91
Hotplate stirrer with ceramic top, 180×180 mm	1	442-1271	553.36



MICROCENTRIFUGE, MINISTAR VWR, PART OF AVANTOR

This personal centrifuge has a fixed speed of 6000 min⁻¹/2000 ×g, and is designed for applications requiring relatively low g-forces, such as microfiltration, cell separation and quick spin downs from the walls of tubes.

Supplied with 8×1,5/2,0 ml rotor, 4× (8×0,2 ml) strip tube rotor, 8 adapters for 0,4 ml tubes and 8 adapters for 0,5 ml tubes.

Model	MiniStar Union Jack
Max. capacity	8×1,5/2,0 ml tubes or 4×(8×0,2 ml) tube strips
Max. speed (min ⁻¹)	6000
Max. RCF (×g)	2000
Noise level (dB(A))	56
Power consumption (W)	5
W×D×H (mm)	132×132×112
Weight (kg)	0,55
Acceleration/deceleration time	5/1,5 s

Description	Pk	Cat. No.	Price (£)
Microcentrifuge MiniStar Union Jack, with rotors and adapters, UK-plug	1	521-2608	110.49



Microplate centrifuge, PCR plate centrifuge II

MICROPLATE CENTRIFUGE, PCR PLATE CENTRIFUGE II VWR, PART OF AVANTOR

The PCR Plate Centrifuge II is a personal sized digital centrifuge designed to spin down droplets in PCR plates. This centrifuge is equipped with a dual-position rotor that accepts a wide variety of PCR plates; 96-well, 384-well, skirted and non-skirted. Plates are inserted vertically and quickly spin to a max. speed of 2800 rpm (550×g).

Supplied with dual-position vertical rotor, two power cords (EU and UK) and USB stick with manuals. An optional adapter for 0,2 ml PCR tube strips and 0,2 ml PCR tubes is available to order separately.

Max. capacity	2×96 or 384 well PCR plates
Max. RCF	550×g
Timer	15 s to 2 min
Noise level (dB(A))	≤60 dB(A) at maximum speed
Power consumption (W)	45 W
Power supply	230 V ±10%, 50 / 60 Hz
W×D×H (mm)	240×226×260
Weight (kg)	3.3
Acceleration time	Fixed ≤10 s
Deceleration time	Fixed ≤4 s
Speed range	2200 - 2800 rpm
Speed setting	100 rpm (increments)

Description	Pk	Cat. No.	Price (£)
PCR Plate centrifuge II, 230V	1	521-3497	331.20

MICROCENTRIFUGES, VENTILATED/REFRIGERATED, MICRO STAR 17 / 17R VWR, PART OF AVANTOR

Micro Star 17 and 17R microcentrifuges combine power, versatility and convenience in a safe, compact, easy to use laboratory instrument.

Supplied with 24-place rotor for 1,5/2,0 ml tubes aerosol-tight rotor lid and USB stick with manuals.



Micro Star 17 ventilated and 17R, refrigerated

Model	Max. speed (min ⁻¹)	Max. RCF (×g)	Temperature	Timer	Noise level (dB(A))	W×D×H (mm)
Refrigerated centrifuge						
Micro Star 17R	13300	17000	-9...+40 °C	1 – 99 min (in increments of 1 min) + Hold mode	<50	292×440×330
Non refrigerated centrifuge						
Micro Star 17	13300	17000		1 – 99 min (in increments of 1 min) + Hold mode	<56	240×350×230

Description	PK	Cat. No.	Price (£)
Refrigerated centrifuge			
Microcentrifuge, refrigerated, Micro Star 17R	1	521-1647	2011.50
Non refrigerated centrifuge			
Microcentrifuge, ventilated, Micro Star 17	1	521-1646	837.00



Premium weighing technology with full GLP/GMP compliance

Precision balance

PRECISION BALANCES, PREMIUM SERIES VWR, PART OF AVANTOR

A selection of high level balances offering high accuracy and repeatability combined with easy, intuitive operation and a large touch screen for applications in the laboratory, industrial and educational settings.

- Highly accurate results (high-end weighing technology)
- Fast stabilisation times
- Easy to clean and high chemical resistance
- Control panel with high resolution, touch screen functionality and eight language options
- Overload protection
- Future-proof USB type C interface
- Under bench weighing
- Data transfer as PC spreadsheet, PC text and Ascii protocols
- Six built-in applications with GLP/GMP compliant data output: Weighing and dosing, counting, percentage weighing, density determination, mass unit conversion and animal weighing

These high quality balances have a polybutylene terephthalate (PBT) housing, which has excellent chemical resistance. The control unit is made of glass and has intuitive operation and a large touch screen. The weighing pan is stainless steel. All Precision models (PBA) have a glass draft shield with convenient access to the weighing pan. This draft shield is specially coated to minimise weighing errors from electrostatically charged samples. Precision models with readability of 10 or 1000 mg do not have draft shields.

Models with internal 'One-Touch-Calibration' are denoted by I in the model name.

FC models are supplied with a factory calibration certificate.

EN 61326-1:2013, EN 61010-1: 2010, EN 61010-2-010:2014, EN 50581:2012, IEC 60664-1

Model	Weighing cap. (g)	Linearity (mg)	Pan/platform size (mm)	Readability (mg)	Repeatability (mg)	Pk	Cat. No.	Price (£)
Balances with internal calibration								
PBP423i-1S	420	±2	Ø 120	1	±1	1	611-4802	680.16
PBP623i-1S	620	±2	Ø 120	1	±1	1	611-4806	892.32
PBP2202i-1S	2200	±20	Ø 180	10	±10	1	611-4810	737.10
PBP4202i-1S	4200	±20	Ø 180	10	±10	1	611-4814	755.82
PBP6202i-1S	6200	±20	Ø 180	10	±10	1	611-4818	892.32

ANALYTICAL BALANCES, PREMIUM SERIES VWR, PART OF AVANTOR

A selection of high level balances offering high accuracy and repeatability combined with a wear resistant LED touch screen for basic applications in the laboratory, industrial and educational settings.

- Highly accurate results (high-end weighing technology)
- Fast stabilisation times
- Easy to clean with high chemical resistance
- Control panel with high resolution, touch screen functionality and eight language options
- Overload protection
- Future-proof USB type C interface
- Under bench weighing
- Data transfer as PC spreadsheet, PC text and Ascii protocols
- Six built-in applications with GLP/GMP compliant data output: Weighing and dosing, counting, percentage weighing, density determination, mass unit conversion and animal weighing



Analytical balance

Model	Weighing cap. (g)	Linearity (mg)	Pan/platform size (mm)	Readability (mg)	Repeatability (mg)	Pk	Cat. No.	Price (£)
Balances with internal calibration								
PBA124i-1S	120	±0,2	Ø 90	0,1	±0,1	1	611-4794	829.92
PBA224i-1S	220	±0,2	Ø 90	0,1	±0,1	1	611-4798	892.32



More glass washing options available online

Undercounter laboratory glasswasher PG 8504

LABORATORY GLASSWARE WASHERS, PG 8504 MIELE

PG 8504 is a freestanding unit with lid and its exterior is made from stainless steel casing. It can handle a wide variety of cleaning challenges found in laboratory environments.

- Capacity per cycle: up to 64 injector nozzles together with other laboratory glassware
- TouchControl display shows three row display of program name, actual/target temperature and remaining program time
- Allows quick and simple selection of six different programs (normal, regular, extended, de-min. rinse, rinse, drain).

Baskets and accessories must be ordered separately. Please contact your Avantor sales representative/technical services for assistance with the product configuration.

Model	PG 8504
Capacity	Up to 64 injector nozzles together with other laboratory glassware
Controller/programs	TouchControl (with 6 programmes), buzzer, acoustic signal at end of programme
Program operation/display	Touch screen
Cleaning mechanisms	2 spray arms
Metering devices	2 dispensers for powder detergent and rinse aid/neutralising agent
Circulation pump (Qmax)	500 L/min
Control	Automatic locking door with temperature control
Water connection	1x cold water, 1x demineralised water, 2 inlet hoses 1/2" with 3/4" threaded union (2 m length), drain pump DN 22
Drainage	Drain pump
Noise level	<70 (dBA)
Power connection	3 N AC 400 V (50 Hz), changeable to AC 230 V
WxDxH (mm)	600x600x835 (820 mm without cover)
Chamber WxDxH	536x522x523/518 mm
Weight (kg)	72

Description	Pk	Cat. No.	Price (£)
Undercounter laboratory glasswashers			
Undercounter laboratory glasswasher PG 8504 AE AD, AC 230 V, stainless steel casing, 1x DI water supply (AD), 1 door dispenser for powder cleaning agent	1	141-1249	3,147.00

Description	Pk	Cat. No.	Price (£)
Basket sets for PG 85 glassware washers			
Basket Set A 205/1 Basic, contains 1x A 101 basket; 1x A 150 basket; 2x AK 12/1 module; 1x A 300/3 module; 1x A 301/5 module, for PG 8504, PG 8583, PG 8593, PG 8583 CD	1 SET	141-1550	1,372.99
Basket Set A 206/1 Advanced, contains 1x A 100 basket; 1x A 150 basket; 2x A 302/3 module; 2x A 301/5 module, PG 8504, PG 8583, PG 8593, PG 8583 CD	1 SET	141-1551	2,143.65



Water purification system

DI water system available as an accessory. Contact your specialist to discuss further

WATER PURIFICATION SYSTEM, ELIX® ESSENTIAL MERCK

Elix® Essential delivers Type 2 water customised to fit a broad range of research areas. It is designed to be fed from potable water and is the ideal feed for any laboratory equipment.



Automatic colony counters, Autolite

AUTOMATIC COLONY COUNTERS, AUTO LITE VWR, PART OF AVANTOR

Auto *lite* is the latest affordable, automated colony counting device. The Auto *lite* features simple to use software that greatly improves efficiency, reliability and productivity.

Plates are automatically counted with results directly transferred to PDF, Excel or Open office. The Auto *lite* accepts plates up to 90 mm in diameter. Lighting is provided by LEDs mounted above and below the sample area for both transmitted and epi illumination. A detachable screen can be used to eliminate strong ambient light if required. Auto *lite* can be used with any conforming laptop or desktop PC and connects simply by using a USB port.

Count	Separation of touching colonies, exclusion areas
Lighting	Multi-array LED lighting (computer controlled), lower lighting with upper reflective lighting for all applications
Camera	Integrated, sensitive 1 MP
Resolution	For standard 90 mm Petri dish, smallest detectable colony is 100 - 120 μ m
Software	Windows 7/10 compatible
WxDxH	260x260x260 mm
Weight	3,3 kg

Description	Pk	Cat. No.	Price (£)
Automatic colony counter	1	710-2072	2,712.00



Premium 150 automatic colony counters

AUTOMATIC COLONY COUNTERS, PREMIUM 150 VWR, PART OF AVANTOR

The Premium 150 accepts plates of up to 150 mm in diameter and detect colonies as small as 100 µm and measure zones accurately to 0,5 mm. Designed for use across a wide range of applications.

The Premium 150 and Premium 90 HR includes colony counting and inhibition zone measuring ability, spiral plate counting, Ames testing and multi-sector measurements. Other applications on demand. Results can be automatically transferred to Excel, PDF or a LIMS system. All data generated is GLP/GMP/21 CFR Part 11 compliant with a full audit trail and can be used to produce professional reports. Each system comes complete with two validation plates.

PC is not included.

Model	Premium 150
Count	Separation of touching colonies, exclusion areas, colour mode, shape mode, size mode
Lighting	Unique 3-channel (red, green, blue) LED lighting, multi-array LED lighting (computer controlled), lower lighting with upper reflective lighting for all applications
Camera	Integrated, sensitive 1,4 MP
Resolution	For standard 150 mm Petri dishes, smallest detectable colony is 100 µm
Software	Windows 7/10 compatible
WxDxH	400x500x450 mm
Weight	20 kg

Description	Model	Pk	Cat. No.	Price (£)
Automatic colony counter	Premium 150	1	710-2073	8,072.00



HOMOGENISER, LAB BLENDER SMASHER® BIOMÉRIEUX

The Smasher® is a food sample peristaltic blender for sample volumes of 80 to 400 ml which has a leak-free and corrosion-resistant blending chamber with stainless steel paddles and an integrated waste drawer. The chamber and housing are made of injection moulded ABS, so it can be easily cleaned and disinfected. Digital control, a LCD screen with bar graph display and an ambidextrous handle make smasher® easy to use.

Model	Smasher®
Paddle speed	Adjustable: slow (500 min ⁻¹), normal (560 min ⁻¹) or fast (620 min ⁻¹)
Timer	10 - 180 s
WxDxH (mm)	400x380x330
Weight (kg)	21

Description	Pk	Cat. No.	Price (£)
Smasher® peristaltic blender	1	432-1850	2,879.50

SINGLE-CHANNEL PIPETTES, MECHANICAL, VARIABLE VOLUME, TRANSFERPETTE® S BRAND

The Transferpette® S air displacement pipette allows you to work efficiently and ergonomically with both small and large volumes. Due to its perfect ergonomics, the Transferpette® S provides a comfortable grip in any hand position, whether you are right- or left-handed, or have big or small hands.

- True one-hand operation for right- and left-handed users: Easily set the volume, pipette and eject the tip
- Colour code on volume adjustment wheel, shaft and volume-change protection
- Low operating forces and a short stroke ensure relaxed pipetting, even during long pipetting series
- Slim shaft for sampling from narrow vessels (centrifuge tubes)
- Universal tip cone
- Fully autoclavable at 121 °C



Transferpette® S pipette, package 2

The volume-change protection is also easy to operate with gloves on and protects your set volume against accidental adjustment. The Transferpette® S also features Easy Calibration technology, which makes calibration a breeze. Calibration can be carried out without tools. A compatibility table shows which tips fit which device, so that you always order the correct pipette tips.

Description	Pk	Cat. No.	Price (£)
Packs			
Micro starter kit incl. 3x pipettes (0,1-2,5 µl, 0,5-10 µl, 10-100 µl), 3 shelf mounts	1	613-6734	439.36
Midi starter kit incl. 3x pipettes (2-20 µl, 20-200 µl, 100-1000 µl), 3 shelf mounts	1	613-6735	415.28
Macro starter kit incl. 3x pipettes (100-1000 µl, 500-5000 µl, 1000-10000 µl), 3x shelf mounts	1	613-6736	439.36
Standard starter kit incl. 3x pipettes (0,5-10 µl, 10-100 µl, 100-1000 µl), 3x shelf mounts	1	613-6737	425.68
Package 1 incl. 5x pipettes (0,1-2,5 µl, 0,5-10 µl, 2-20 µl, 20-200 µl, 100-1000 µl), benchtop rack for 6 pipettes	1	613-6738	717.04
Package 2 incl. 5x pipettes (0,5-10 µl, 10-100 µl, 20-200 µl, 50-1000 µl, 500-5000 µl), benchtop rack for 6 pipettes	1	613-6739	717.04

REPETITIVE PIPETTE, HANDYSTEP® S BRAND



Repetitive pipette, HandyStep® S

Ergonomic and durable repetitive pipette that allows quick and easy serial pipetting and, in conjunction with Brand PD-Tips (10 different sizes from 0,1 µl to 50 ml), providing up to 49 repetitive dispensings from a single aspiration. Also compatible with Combipips®, Combipips® plus and other standard repetitive tips.

- Easy tip mounting - tips are simply inserted from below
- Eject key for contact-free, safe tip ejection
- Superior ergonomic handling
- DE-M marking, with serial number
- 59 different volumes with 10 PD-Tip sizes

The HandyStep® S works on the positive displacement principle, making it ideal for routine and research applications, as well as for difficult liquids (viscous, high density or high vapour pressure liquids).

* Stroke setting = % of nominal volume

Supplied with DE-M marking, performance certificate, operating manual, shelf/rack mount, three PD-Tips (0,1, 1 and 10 ml).

Pipette tip	Volume (µl)	Accuracy (≤ ± %)		Imprecision (%)	
		1 = 2%	5 = 10% *	2%	10%
PD-Tip 0,1 ml	2-10	±4,0	±1,6	≤6,0	≤2,0
PD-Tip 0,5 ml	10-50	±2,5	±1,0	≤2,5	≤1,0
PD-Tip 1,0 ml	20-100	±2,5	±1,0	≤2,0	≤0,8
PD-Tip 1,25 ml	25-125	±2,5	±0,9	≤2,0	≤0,7
PD-Tip 2,5 ml	50-250	±1,5	±0,7	≤1,5	≤0,6
PD-Tip 5,0 ml	100-500	±1,8	±0,7	≤1,5	≤0,7
PD-Tip 10,0 ml	200-1000	±1,8	±0,7	≤2,0	≤0,8
PD-Tip 12,5 ml	250-1250	±1,8	±0,8	≤3,2	≤1,4
PD-Tip 25,0 ml	500-2500	±1,5	±0,6	≤3,0	≤1,0
PD-Tip 50,0 ml	1000-5000	±1,5	±0,5	≤5,0	≤1,2

Description	Pk	Cat. No.	Price (£)
HandyStep® S	1	612-3858	195.00



HandyStep S touch with AC adapter

REPETITIVE PIPETTE, HANDYSTEP® TOUCH AND HANDYSTEP® TOUCH S BRAND

Repetitive pipettes are the first choice when it comes to efficient dispensing of long series. Positive displacement pipettes are often the right solution for pipetting viscous media. The new stepper HandyStep® touch combines both features. The HandyStep® touch S has additional capability, such as titration or sequential dispensing.

- Touch screen operation with intuitive menu navigation in English, German, Spanish, French and Chinese
- HandyStep® touch features multi-dispensing, auto-dispensing and pipetting; HandyStep® touch S offers the following additional features: Sequential dispensing, multi-aspiration and titration
- Automatic tip ejection and size detection of BRAND PD-Tips II
- Variable volume adjustment from 1,0 µl to 50 ml
- Easy to clean thanks to smooth surface without grooves and edges
- Inductively rechargeable

With the touch screen display, you can conveniently swipe back and forth between functions and always have an overview of the essential information on your work steps. Operation is easy, even with protective gloves on. And speaking of easy, the days of manually changing tips are over. On the HandyStep® touch, lightly tapping on the Eject icon on the display is enough to eject the tip. The HandyStep® touch repetitive pipette automatically recognises the volume of the new BRAND PD-Tips II. This saves time and reduces the risk of error. Tips from many other manufacturers can also be used, providing maximum flexibility. Charging is easy and efficient: Simply place the HandyStep® touch in the inductive charging stand and the battery automatically starts charging.

Compatible with PD-Tips prior to the PD-Tips II generation and with tips from many other manufacturers: For example, Encode™ tips, Repet-Tips®, Combitips®, Combitips® plus, Combitips® advanced (the above mentioned brands are property of their respective owners).

Description	Pk	Cat. No.	Price (£)
HandyStep® touch with AC adapter, charging stand and shelf/rack mount	1	613-6414	720.00
HandyStep® touch S with AC adapter, charging stand and shelf/rack mount	1	613-6415	760.80



Dilumat™ EXPERT

GRAVIMETRIC DILUTORS, DILUMAT™ START AND DILUMAT™ EXPERT BIOMÉRIEUX

The Dilumat™ series of gravimetric dilutors feature a detachable control unit with a modern, user friendly and intuitive interface, that enables remote operation. The EXPERT and EXPERT EVO come with two pumps that can be used in DUAL pump mode (pumps used together on the same broth) but with the possibility of enlarging the operation with up to four external pumps. The Dilumat™ START has a more reduced range of operation and the possibility of only one external pump.

Dilumat™ dilutors meet BAM and ISO 7218 requirements

Model	Dilumat™ EXPERT	Dilumat™ EXPERT EVO	Dilumat™ START
Dilution factor	2/1000		2/100
Duration	10 sec for 25 g at 1/10 dilution >30 sec for 375g at 1/4 dilution using DUAL pump mode		10 sec for 25 g at 1/10 dilution
Min. weight	1 g	10 g	1 g
Max. weight	3000 g	7000 g	2000 g
Accuracy	<5%		
WxDxH (mm)	380x330x440 mm		
Weight (kg)	13		

Description	Pk	Cat. No.	Price (£)
Dilumat™ Expert with 2 integrated pumps	1	710-1643	6,084.00
Dilumat™ Expert EVO	1	710-1642	6,773.00
Dilumat™ START with 1 integrated pump	1	710-1476	3,874.00



613-2892

Tips on
page 50



613-5469

SINGLE-CHANNEL PIPETTES, MECHANICAL, VARIABLE VOLUME, STANDARD LINE

VWR, PART OF AVANTOR

These lightweight Standard Line pipettes provide accuracy and precision. Their ergonomic features, such as the contoured shape of the handle and the soft spring system, deliver smooth and effortless pipetting, even during extensive periods of use.

- Easily adjustable ejector height system to accommodate virtually all brands of tips
- UV resistant and fully autoclavable
- Easy and quick recalibration system
- Colour coded shaft for easy volume identification
- 5000 μ l and 10000 μ l version with shaft protected by filter

Volume (μ l)	Accuracy (%)	Imprecision (%)	Pk	Cat. No.	Price (£)
0,2 - 2	$\pm 12,0 - \pm 1,5$	$\leq 6,0 - \leq 0,7$	1	613-2891	62.25
0,5 - 10	$\pm 4,0 - \pm 0,5$	$\leq 2,8 - \leq 0,4$	1	613-2892	60.21
2 - 20	$\pm 3,0 - \pm 0,8$	$\leq 1,5 - \leq 0,3$	1	613-2893	56.60
10 - 100	$\pm 1,6 - \pm 0,8$	$\leq 0,8 - \leq 0,2$	1	613-2894	57.20
20 - 200	$\pm 1,2 - \pm 0,6$	$\leq 0,6 - \leq 0,2$	1	613-2895	57.20
100 - 1000	$\pm 1,6 - \pm 0,6$	$\leq 0,4 - \leq 0,15$	1	613-2896	56.05
500 - 5000	$\pm 1,2 - \pm 0,5$	$\leq 0,5 - \leq 0,15$	1	613-2897	57.20
1000 - 10000	$\pm 2,5 - \pm 0,5$	$\leq 0,6 - \leq 0,2$	1	613-2898	57.20

Description	Pk	Cat. No.	Price (£)
Starter kit			
VWR Standard 3 Pack (2 - 20 / 20 - 200 / 100 - 1000 μ l), without pipette tip samples	1	613-6969	158.89

Equipment Services

Keep your laboratory in compliance
and in operation



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