



LABORTOPS

valid until 30.06.2024

BALLOON AND WIDE NECK BOTTLES

- **New Assortment**
- **High Quality**
- **Large Selection**



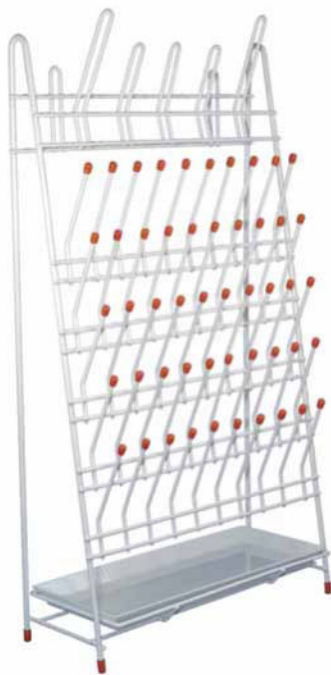
New



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LLG-Draining racks, PE-coated wire



Wall or bench mounting for 50 reagent bottles and 5 flasks. With drip channels and plastic-covered feet. Dimensions (L x W x H): 360 x 130 x 650 mm.

-20%

Type	PK	Cat. No.	Price	Now
LLG-Draining racks	1	6.281 619	GBP 41.21	GBP 32.97

LLG-Laboratory Power Failure Detector



- Immediate visual and acoustic alarm
- Alarm can sound for short power outages or larger periods of at least 12 hours (can be switched off manually).
- Plug safety cover offers protection against accidental disconnection of the plug
- Maximum total power of connected devices. 3500W power supply 230 V 50 Hz
- Suitable for European plugs
- Max. Rating 16 A
- With built-in battery

Scope of supply:
 1 x power failure detector
 2 x plug safety caps
 2 x screws



-20%

Type	PK	Cat. No.	Price	Now
LLG-Laboratory Power Failure Detector	1	6.255 819	GBP 39.01	GBP 31.21

LLG-All-round Cutter with rubber grip



Easy and comfortable handling is ensured by the ergonomically shaped grip. The break-off device is integrated into the grip section of the ABS plastic casing. Comes with a metal blade guide and auto-lock system. Both cutters will be delivered on blister cards including 2 spare cutting blades.

-34%

Type	PK	Cat. No.	Price	Now
LLG-All-round Cutter 18 mm	1	9.160 656	GBP 3.66	GBP 2.42

Tally counter, digital



Effective and practical counter with a sturdy, chrome-finished housing. Ideal for counting blood cells, bacterial colonies, liquid drops or any other repetitive step with a tally level up to 9999. TALLY COUNTER - "handy" Features a quick-reset knob, lens window for easy reading, and a finger ring for a secure grip.

-44%

Description	PK	Cat. No.	Price	Now
Tally counter	1	6.267 411	GBP 8.91	GBP 4.99

Microtube racks, PP, 96-Well



Autoclavable. Polypropylene rack has 96 wells for 0.5 ml microcentrifuge tubes on one side and 96 wells for 1.5 ml to 2.0 ml microcentrifuge tubes on the other side. Wells are arranged in a standard 8 x 12 array. The handy lid snaps into place using tabs on each end of the rack. Dimensions (L x W x H): 246 x 121 x 50 mm.



-33%

Colour	PK	Cat. No.	Price	Now
Blue, green, pink, yellow and orange	5	9.193 982	GBP 49.03	GBP 32.85



- New Assortment
- For Transportation and Storage



LLG-Carboy, PP, with handles



LLG-Carboy with screw cap made of PP for storing and dispensing media, solutions and other liquids. The practical shoulder handle facilitates transport and pouring.

- With graduation
- Autoclavable
- Stable bottom with curved corners
- Leak-proof

-20%

Capacity	Dimensions (dia. x H)	Neck diam.	Cap size	PK	Cat. No.	Price	Now
l	mm	mm				GBP	GBP
10	249 x 376	65	83	1	4.692.534	35.06	28.05
20	285 x 518	65	83	1	4.692.535	49.85	39.88
50	376 x 665	65	83	1	4.692.536	99.53	71.62

LLG-Wide mouth bottle, HDPE, rectangular



- Space-saving, rectangular wide mouth bottle with sturdy, uniform wall construction. Ideal for easy filling, storage or transport of liquids, powders and granulates.

- With screw cap
- Exceptional chemical resistance to most acids, bases and alcohols
- Autoclavable
- Leak-proof

-20%

Capacity	Dimensions (W x D x H)	Cap size	Neck diam. int.	PK	Cat. No.	Price	Now
ml	mm		mm			GBP	GBP
125	39.4 x 60.0 x 97.3	28	21.1	12	4.692.551	12.05	9.64
250	54.0 x 75.5 x 112.0	38	28.8	12	4.692.552	19.22	15.38
500	64.7 x 100.0 x 140.6	48	38.0	12	4.692.553	27.13	21.70
1000	70.2 x 125.2 x 175.0	53	43.7	6	4.692.554	29.84	23.87

LLG-Wide mouth bottle, PP



Ideal for easy filling, storage or transport of liquids, powders and granulates.

- With a screw cap made of PP
- Autoclavable
- Bottom with curved corners
- Leak-proof

-20%

Capacity	Diam.	Neck diam. int.	Height	PK	Cat. No.	Price	Now
ml	mm	mm	mm			GBP	GBP
30	34.8	21.4	59.8	12	4.692.538	7.44	5.95
60	39.7	21.3	82.5	12	4.692.539	8.69	6.95
125	50.6	28.6	95.5	12	4.692.540	11.09	8.87
250	61.6	33.0	127.4	12	4.692.541	15.83	12.66
500	73.1	43.8	164.0	12	4.692.542	21.36	17.09
1000	92.7	53.3	195.0	6	4.692.543	26.35	16.28

LLG-Wide mouth bottle, HDPE, round



Ideal for easy filling, storage or transport of liquids, powders and granulates.

- With a screw cap made of PP
- Excellent chemical resistance
- Autoclavable
- Bottom with curved corners
- Leak-proof

-20%

Capacity	Diam.	Neck diam. int.	Height	PK	Cat. No.	Price	Now
ml	mm	mm	mm			GBP	GBP
30	34.6	21.0	59.1	12	4.692.544	6.21	4.97
60	39.2	21.1	81.5	12	4.692.545	8.01	6.41
125	50.3	28.3	94.7	12	4.692.546	9.89	7.91
250	60.9	32.8	127.0	12	4.692.547	14.93	11.94
500	72.7	44.0	164.0	12	4.692.548	20.35	16.28
1000	92.0	51.9	195.0	6	4.692.549	28.33	14.66
2000	119.0	90.8	236.0	1	4.692.550	9.17	7.34

Label printer DYMO® LabelWriter™ 550



- High Print Resolution
- Including Labels



Compact label printer with direct thermal printing technology for fast and efficient label printing without additional ink cartridges or toner cartridges. The latest label recognition technology provides information on the size, type, and colour of the loaded labels and automatically displays the number of remaining labels.

- Print resolution of up to 300 x 300 dpi
- Customised label design with DYMO® Connect for Desktop software
- Printing precise label quantities without cumbersome label sheets
- Automatic energy-saving mode
- PC connection via USB interface

Scope of supply: Label printer, 1 x label starter roll (28 x 89 mm), power adapter, power cable, USB cable, quick start guide.

Specifications

Max. label width:	59 mm
Print speed:	62 labels/min.
Dimensions (WxDxH):	127 x 187 x 136 mm
Weight:	640 g
Power supply:	100 ... 240 V, 50/60 Hz, 24 V

-24%

Type	PK	Cat. No.	Price	Now
			GBP	GBP
DYMO® LabelWriter™ 550	1	4.687 585	124.19	94.38

Sample transport box DuraPorter® XL



High-capacity container for the safe and convenient transport of laboratory samples, instruments and valuable items. Specially designed to meet the stringent demands of clinical and research laboratories.

- Also meets transport requirements for secondary packaging as per UN3373
- Dual latches with security tag feature to protect providing tamper-evidence
- With silicone seal for airtight and watertight closure
- Different inserts for a variety of tube sizes are available separately

Scope of supply: Sample transport box, insert MultiTube Rack.

Specifications

Dimensions (WxDxH):	406 x 413 x 178 mm
With lid:	Yes
Stackable:	No

-14%

Colour	PK	Cat. No.	Price	Now
			GBP	GBP
Blue	1	4.692 499	188.96	162.51
Red	1	4.692 500	188.96	162.51
Yellow	1	4.692 501	188.96	162.51

Deep freeze labels TOUGH-SPOTS®



Adhesive dots for 0.5/1.5/2.0 ml reaction tubes. Temperature resistance from -196 °C to 80 °C. Tear-resistant, can be written on with almost any marker.

-20%

Diam.	Colour	For vessels	PK	Cat. No.	Price	Now
mm					GBP	GBP
9.5	White	0.5 ml Tubes	1000	9.040 711	36.69	29.35
9.5	Blue	0.5 ml Tubes	1000	9.040 712	36.69	29.35
9.5	Green	0.5 ml Tubes	1000	9.040 713	36.69	29.35
9.5	Red	0.5 ml Tubes	1000	9.040 714	36.69	29.35
9.5	Yellow	0.5 ml Tubes	1000	9.040 715	36.69	29.35
13.0	White	1.5/2.0 ml Tubes	1000	9.040 716	36.69	29.35
13.0	Blue	1.5/2.0 ml Tubes	1000	9.040 717	36.69	29.35
13.0	Green	1.5/2.0 ml Tubes	1000	9.040 718	36.69	29.35
13.0	Red	1.5/2.0 ml Tubes	1000	9.040 719	36.69	29.35
13.0	Yellow	1.5/2.0 ml Tubes	1000	9.040 720	36.69	29.35
13.0	Lavendel	1.5/2.0 ml Tubes	1000	6.287 530	36.69	29.35

Inserts for sample transport box DuraPorter XL



Suitable for a variety of reaction tubes and blood collection tubes.

- Separately usable
- The lid can be easily and fully removed
- Sufficient depth for filling with ice

-10%

For tubes diam.	For tubes	Array	PK	Cat. No.	Price	Now
mm	ml				GBP	GBP
13	3.5 ... 7.5	168	3	4.692 503	62.99	56.69
18	10 ... 15	100	3	4.692 502	62.99	56.69
13 ... 30	3.5 ... 50	-	3	4.692 504	62.99	56.69

Cleanroom Gloves AdvanTech529, nitrile

EN ISO 374-1
Type B EN ISO 374-5 EN 421



Enhanced mechanical resistance for short-term operations. The manufacturing process guarantees a very low level of contaminants: particle rates, powder-free, non-volatile residue, extractable content; compliant with ISO 5 class (Class M3.5 for International systems). 100% nitrile formula enables anti-static properties. Offers protection against accidental chemical splashes. Recommended for people who are sensitive to the proteins in natural latex. Thickness: 0.1 mm. Packaging: 100 gloves/bag

- **Cat. III**
According to EN ISO 374-1:2016/Type B, EN ISO 374-5:2016, EN 421

Size	Length mm	PK	Cat. No.	-5%	
				Price	Now
6	300	100	6.270 501	27.20	25.84
7	300	100	6.270 502	27.20	25.84
8	300	100	6.270 503	27.20	25.84
9	300	100	6.270 504	27.20	25.84
10	300	100	6.270 505	27.20	25.84

Cleanroom Wipes Sontara® MicroPure, polyester/cellulose



Sontara® MicroPure nonwovens (cellulose/polyester) have been specially developed for use in cleanrooms. The nonwoven combines the absorbency of natural fibres with the purity and strength of a synthetic material. No binding agents or chemicals are used in its manufacture. Due to its cellulose content, the nonwoven material has a high absorption capacity for particles and liquids.

Type	Dimensions mm	Cleanroom Class ISO	PK	Cat. No.	-22%	
					Price	Now
100	305 x 305	5 + 6	150	9.390 185	34.18	26.66
100	224 x 224	5 + 6	300	9.390 186	33.85	26.40
AP	305 x 305	6 - 9	150	9.390 187	35.10	27.38
AP	224 x 224	6 - 9	300	9.390 188	33.35	26.01
SV	305 x 305	7 - 9	250	9.390 189	36.35	28.35
SV	224 x 224	7 - 9	500	9.390 190	44.71	34.87

Panoramic Eyeshield 619



Panoramic Eyeshield is designed for use in rooms with controlled contaminations (sterile and clean rooms) or aseptic conditions. Its soft structure supports multiple repetitive stream cycles and gamma or beta sterilization without perceptible changes.

- Sterilizable through autoclave with steam
- New elastic strap in antistatic silicone
- Innovative quick elastic band adjustment system
- With direct ventilation

Lens	PK	Cat. No.	-28%	
			Price	Now
clear / 2C-1.2 U 1 B CE	1	6.286 800	39.94	28.76

Sticky Swabs, ESD



Sticky Swabs - ESD-safe cleaning stems: Lint-free sticky swabs are specially used and designed for a high-degree dust-free environment (class 10-100). Anti-static treatment can safely dissipate electrostatic charge. Sticky swabs are applicable for manufacturing and assembling static-sensitive products. Property: ESD safe, effective absorption, soft and good tenacity, excellent agility, non-volatile, environment-friendly, no thrill odour.

Material:
Tip: PVAC (Polyvinyl acetate), Ethyl acetate - Isopentyl acetate
Handle: PVC

Description	Cleanroom Class ISO	PK	Cat. No.	-17%	
				Price	Now
1 mm Ø	1-2	25	6.272 061	35.22	29.23
2 mm Ø	1-2	25	6.272 062	35.22	29.23
3 mm Ø	1-2	25	6.272 063	35.22	29.23
Kit, box of 75 swabs mixed (25 x 1mm, 25 x 2 mm, 25 x 3 mm)	1-2	1	6.272 064	78.43	65.10

LLG-Laboratory coat, 100% cotton



- Very sturdy material, excellent wearing comfort
- Snap fasteners (press buttons); easy and quick to open
- With fold-down collar
- One outside breast pocket and two side pockets
- Washable up to 60 °C
- Ladies coat with stitched-down back belt

Material: 100% cotton
 Colour: White
 Weight: 220 g/m²

-20%

Description	Size	PK	Cat. No.	Price	Now
				GBP	GBP
Ladies coat	36/38	1	9.414 342	17.36	13.89
Ladies coat	40/42	1	9.414 343	17.36	13.89
Ladies coat	44/46	1	9.414 344	17.36	13.89
Mens coat	44/46	1	9.414 345	18.19	14.55
Mens coat	48	1	9.414 346	17.36	13.89
Mens coat	50	1	9.414 347	17.36	13.89
Mens coat	52	1	9.414 348	17.36	13.89
Mens coat	54	1	9.414 349	17.36	13.89
Mens coat	56	1	9.414 350	19.41	15.53

LLG-Safety Eyeshields *basic* +



- CE approved to EN 166 and EN 170
- Economic Safety Eyeshields are ideal for essential protection
- 180° field of vision
- Frame made of tested hypo-allergenic material
- 100% UV protection (up to 380 nm)
- Especially light
- Weight: 23 g

-20%

Lens	PK	Cat. No.	Price	Now
			GBP	GBP
Clear, uncoated, 2-1.2 U 1 F CE	10	6.290 868	25.59	20.47

Laboratory coat Kimtech™ A7 P+, PP



- Certified PPE Cat III acc. to directive 89/686/EEC
- Type 6 limited chemical splash protection
- Micro-organism protection tested
- EN1149-1:1995 Antistatic clothing
- High-performance chemical-resistant fabric
- Low lint fabric, Helmke Drum Category II
- 99% particle and bacterial filtration efficiency
- Individually packed, 15 p. in an outer package for ISO 7 Grade C areas
- Silicon-Free
- Abrasion-resistant film-coated polypropylene
- Mandarin collar
- Elastic cuff, thumb-loops and extra-length arms
- High strength triple stitched seams

-36%

Size	PK	Cat. No.	Price	Now
			GBP	GBP
S	15	4.653 906	92.82	59.40
M	15	4.653 907	92.82	59.40
L	15	4.653 908	92.82	59.40
XL	15	4.653 909	92.82	59.40
XXL	15	4.653 910	92.82	59.40

Premium Respirators 8825+ and 8835+, Moulded Masks



8825+



8835+



Respirators Premium 8825+ and 8835+ moulded masks offer the new patented 3-dimensional face seal with integrated nose profile of 3M Premium+ Series, the convenience of a disposable mask, as well as the concept of tailor-made face seal of reusable respirator masks. The face seal of the masks 8825+ and 8835+ improves the sealing fit. The profile of the respirator directs the air escaping through the filter medium away from the face. The upward air flow is minimized as much as possible, reducing the fogging of safety glasses.

Authorization: EU construction test
 Testing standards: EN 149:2001

-14%

Type	Protection-level	Usage restrictions	PK	Cat. No.	Price	Now
					GBP	GBP
8825+	FFP2 RD	12 x TLV	5	6.284 248	42.08	36.19
8835+	FFP3 RD	50 x TLV	5	6.284 249	48.54	41.72

Safety shower combination ClassicLine, free-standing



Combined Body and Eye Shower

ClassicLine safety shower combination, with safety eye shower optionally with bowl, lid and face wash unit, floor mounted.

- Including upper and lower 1 1/4-inch IG water connection for installation in circulation pipes, 1 1/4-inch stainless steel plug
- Stand with 4-fixing holes made of stainless steel, chemical-resistant green powder-coated, diameter 200 mm.
- A 3/4-inch brass ball valve, with quick-fit system and tie-rod actuation, DIN-DVGW tested and approved
- Integrated ClassicLine safety eye shower with two 45° shower heads, chemical-resistant green powder-coated, 3/4-inch tap connection
- Following BGI/GUV-I 850-0, DIN 1988 and DIN EN 1717
- In accordance with ANSI Z358.1-2014, DIN EN 15154-1:2006, DIN EN 15154-2:2006 and DIN EN 15154-5:2019
- DIN-DVGW tested and approved



-24%

Specifications

Total height:	2330 mm
Projection:	630 mm
Installation height for eye shower:	900 mm
Operating pressure:	1.5 to 3 bar
Flow rate body shower:	50 l/min
Water inlet:	1 1/4" female
Flow rate eye shower:	14 litre/minute

Description	PK	Cat. No.	Price	Now
			GBP	GBP
without bowl	1	6.239 809	953.76	724.86
with bowl	1	6.239 810	1,134.93	862.55
with face wash unit, bowl and lid	1	6.317 045	1,411.93	1,072.99

Safety Shower Test Cart, Tank Capacity 30 litres, Mobile



With the safety shower test cart, you can keep the monthly required functional test simple and easy.

- mobile collecting tray equipped with 4 roles made of black plastics
- two integrated grip recesses
- one drain screw
- total height 2100 mm
- tank capacity 30 litre
- total weight 7 kg
- detachable in 3 parts for simple storage

-23%

Description	PK	Cat. No.	Price	Now
			GBP	GBP
Safety shower test cart	1	7.656 739	188.80	145.38

LLG-Disposable Gloves, standard long, Nitrile, Powder-Free

EN ISO 374-1 Type B EN ISO 374-5 EN 421 EN 420



Disposable protective gloves in nitrile with enhanced comfort during use and provide greater chemical protection - the standard glove for the laboratory.



- **For forearm protection, 300 mm length**
- Very comfortable to wear
- For single use in applications with an increased need for safety when handling chemicals
- Free from phthalates/softeners and allergenic latex proteins
- Particularly skin-friendly
- Colour blue - suitable for areas subject to HACCP standards
- **Cat. III. AQL 1.5.**

According to EN ISO 374-1:2016/Type B, EN ISO 374-5:2016, EN 421, and EN 420 are suitable for food handling.

You can find the appropriate compatibility list on www.llg-labware.com in the Downloads section.

Glove shape:	flat with rolled edge (ambidextrous)
Material:	nitrile
Colour:	blue
Outside:	textured
Inside:	powder-free halogenated
Size/total length:	S, M, L, XL/med. 300 mm
Thickness (measured in double layer):	0.16 mm

-29%

Size	PK	Cat. No.	Price	Now
			GBP	GBP
S	100	6.270 366	10.08	7.16
M	100	6.270 367	10.08	7.16
L	100	6.270 368	10.08	7.16
XL	90	6.270 369	10.08	7.16

Glove Box Pure, PMMA



Aluminium frame with acrylic glass (PMMA) panes, polyethylene base. With a pair of size 9 gloves made of UV-resistant EPDM. Integrated UV lamp with lifetime monitoring in the top for surface and air disinfection in the work area, lamp can be replaced.

Specifications

Capacity Box:	290 l
Internal Dimensions Box (W x D x H):	850 x 540 x 650 mm
Max. Load Box:	40 kg
Inlet openings:	Ø 190 mm
Working Temperature Range:	-20 - 70 °C
Power supply:	240 V, 50/60 Hz

-13%

Type	External dimensions (W x D x H) mm	Weight kg	PK	Cat. No.	Price	Now
					GBP	GBP
Pure	1210 x 600 x 700	22	1	6.312 313	6,952.55	6,048.72

LLG-Autoclavable bags, PP



Produced from durable PP film with a broad seam at the bottom. For the disposal of contaminated labware. When autoclaving, the neck of the bag must be left open. Film thickness: 50 µm.

-16%

Description	Dimensions (D x W)	Auto-clavable at	PK	Cat. No.	Price	Now
					GBP	GBP
standard	400 x 780	134 °C	250	9.404 221	56.97	47.85
standard	500 x 780	134 °C	250	9.404 222	70.46	59.19
standard	600 x 800	134 °C	250	9.404 223	76.99	64.67
standard	600 x 780	134 °C	100	9.404 103	31.91	26.80
standard	700 x 1100	134 °C	250	9.404 224	120.46	117.15
standard	700 x 1100	134 °C	75	9.404 105	39.52	33.20
highly transparent	200 x 300	121 °C	100	9.404 020	8.68	7.29
highly transparent	400 x 780	121 °C	500	9.404 101	151.33	127.12
highly transparent	600 x 800	121 °C	500	9.404 102	191.66	160.99
highly transparent	700 x 1100	121 °C	350	9.404 104	165.58	139.09

Holder for Waste Sacks



- White
- Steel wire
- Epoxy resin coating
- With rubber feets

-5%

Description	Int. diam.	Height	PK	Cat. No.	Price	Now
					GBP	GBP
Stand	120	250	1	7.060 716	7.47	7.10

LLG-Autoclavable Bags, PP, with Biohazard printing



Autoclavable bags imprinted with biohazard labelling. Made of polypropylene. Strong side seams for securely holding items. Front write-on panel.

-20%

Dimensions (D x W)	Colour	Auto-clavable at	Thickness	PK	Cat. No.	Price	Now
						GBP	GBP
mm			µm				
310 x 660	transparent	121 °C	45	50	9.404 050	13.09	10.47
415 x 600	transparent	121 °C	45	50	9.404 051	15.40	12.32
610 x 810	transparent	121 °C	45	50	9.404 052	29.21	23.37
500 x 600	red*	134 °C	50	200	6.285 813	79.06	63.25
630 x 890	red*	134 °C	50	200	6.285 814	149.36	119.49
910 x 1150	red*	134 °C	50	100	6.285 815	138.29	110.63

* with sterilisation indicator

Safety and space-saving canisters, HDPE, electrically conductive



-15%

Type	Nom. capacity L	PK	Cat. No.	Price	Now
				GBP	GBP
Space saver canisters	5	1	4.687 106	89.10	75.74
Safety canister*	10	1	4.005 602	49.41	42.00
Safety canister*	20	1	4.005 671	67.41	57.30

* with UN approval

Qualitative filter papers MN 614, round filters



Medium-fast.

- Embossed
- For determination of sugar content, colour, essential oils and emulsions
- Weight: 75 g/m²
- Thickness: 0.25 mm

-28%

Diam. mm	Filtration time secs.	PK	Cat. No.	Price GBP	Now GBP
55	20	100	9.047 400	5.67	4.08
70	20	100	9.047 401	5.67	4.08
90	20	100	9.047 402	7.02	5.05
110	20	100	9.047 403	9.45	6.80
125	20	100	9.047 404	10.17	7.32
150	20	100	9.047 405	13.68	9.85
185	20	100	9.047 406	18.58	13.38
240	20	100	9.047 407	29.48	21.23
270	20	100	9.047 408	35.86	25.82
320	20	100	9.047 409	48.42	34.86
385	20	100	9.047 410	72.63	52.29
500	20	100	9.047 411	128.44	92.48

Filter paper, qualitative, type MN 615 1/4, filter circles



Medium fast filtration, smooth.
For fat determinations, free from lipids and resins.
Ether soluble residue <0.1 mg for diam. 270 mm filters.

-30%

Diam. mm	Filtration time secs.	Thickness mm	PK	Cat. No.	Price GBP	Now GBP
110	22	0.16	100	9.048 503	25.97	18.18
125	22	0.16	100	9.048 504	25.97	18.18
150	22	0.16	100	9.048 505	25.97	18.18
185	22	0.16	100	9.048 506	28.64	20.05
240	22	0.16	100	9.048 507	42.42	29.69
270	22	0.16	100	9.048 508	49.17	34.42
320	22	0.16	100	9.048 509	60.43	42.30

LLG-Extraction thimbles, cellulose



Neutral and fat-free. With excellent retention capacity.

-20%

Diam. mm	Length mm	PK	Cat. No.	Price GBP	Now GBP
20	80	25	9.045 701	34.04	27.23
22	80	25	9.045 700	30.47	24.38
25	100	25	9.045 709	32.98	26.38
26	60	25	9.045 707	32.21	25.77
28	80	25	9.045 711	32.40	25.92
30	80	25	9.045 708	32.89	26.31
33	80	25	9.045 702	27.00	21.60
33	94	25	9.045 703	30.95	24.76
33	100	25	9.045 704	35.10	28.08
33	118	25	9.045 706	34.43	27.54
43	123	25	9.045 710	64.90	51.92

LLG-Qualitative filter paper, circles



Made from 100% cellulose. Ash content 0.06%. Filtration speed according to DIN 53137. Capacity of separation according to DIN 53135.

Medium fast.
- For fast filtration with fine particles

-25%

Diam. mm	Filtration time secs.	Pore size µm	PK	Cat. No.	Price GBP	Now GBP
42.5	88	5 - 13	100	9.045 800	3.56	2.67
47.0	88	5 - 13	100	9.045 801	3.56	2.67
55.0	88	5 - 13	100	9.045 802	3.80	2.85
70.0	88	5 - 13	100	9.045 803	3.65	2.74
90.0	88	5 - 13	100	9.045 804	4.13	3.10
110.0	88	5 - 13	100	9.045 805	4.59	3.44
125.0	88	5 - 13	100	9.045 806	4.82	3.62
150.0	88	5 - 13	100	9.045 807	6.04	4.53
185.0	88	5 - 13	100	9.045 808	7.55	5.66
240.0	88	5 - 13	100	9.045 809	10.08	7.56

LLG-Qualitative filter paper, sheets



Medium fast, pore size 5 to 13µm.
- For analytical works in laboratories

-20%

Dimensions mm	Filtration time secs.	PK	Cat. No.	Price GBP	Now GBP
460 x 570	88	100	9.045 810	32.40	25.92

HPLC starter kits Generation 2.0, GL 45



HPLC Starter Kit 1

Maximum safety for HPLC solvent supply. The integrated air valve (B) blocks hazardous vapours and cleans the inflowing air (M) from dust and dirt particles.

- Complete set for one HPLC system with up to 4 solvent reservoirs
- Price advantage compared to ordering piece by piece
- Suitable for all current HPLC systems
- Use the supplied blind plugs to tighten connectors which are temporarily inactive or not in use

Contents of the different sets:

- HPLC SafetySet 1:** 3 x SafetyCaps I (V 2.0), 1 x SafetyCap II (V 2.0), 1 x blind plug UNF 1/4" 28G, 4 x air valve
- HPLC SafetySet 2:** 4 x SafetyCaps II (V 2.0), 4 x blind plug UNF 1/4" 28G, 4 x air valve
- HPLC SafetySet 3:** 4 x SafetyCaps III (V 2.0), 8 x blind plug UNF 1/4" 28G, 12 x fitting 1.6 mm, 12 x fitting 2.3 mm, 12 x fitting 3.2 mm, 4 x air valve, 8 x insertion label

Type	PK	Cat. No.	-15%	
			Price	Now
			GBP	GBP
HPLC safety set 1	1	4.669 378	233.10	198.14
HPLC safety set 2	1	4.669 379	251.10	213.44
HPLC safety set 3	1	4.678 694	269.10	228.74

Exhaust Filter, GL 14, PP



b.safe

Lid with integrated ventilation openings and service life indicator. The filling of activated carbon is protected by two porous membranes made of PE. This design allows for an unobstructed flow of exhaust air. Solvents are adsorbed by the activated carbon, ensuring that only filtered air streams out. Suitable for all waste caps with GL14 thread.

Type	Life time	PK	Cat. No.	-13%	
				Price	Now
				GBP	GBP
SMALL	3 months	2	6.313 839	76.46	66.52
MEDIUM	6 months	2	6.313 840	126.95	110.45
LARGE	6 months	2	6.313 841	162.50	141.38

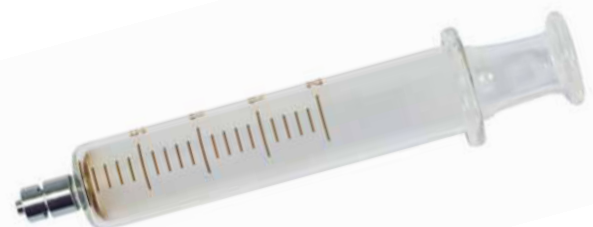
2in1 KITs with Short Thread Vials ND9 (wide opening)



2in1 KITs contain 100 vials (1.5 ml) and 100 closures in a PP Box. As both components are always required at the same time, 2in1 KITs are a convenient way to obtain and store all required items for analysis. All advantages of the individual components (cleanroom packaging of the vials, replaceability of the packaging, etc.) remain unchanged. Cover type: UltraBond Short Thread Cap, blue, hole, Silicon beige/PTFE white, slit.

Description	PK	Cat. No.	-51%	
			Price	Now
			GBP	GBP
clear, labelling field	100	6.266 923	82.17	40.75

LLG-Glass-Syringes, borosilicate glass



With brown graduations. Sterilisable up to 134 °C. Material Cone: Metal, Nozzle type: Luer-Lock.

Capacity	PK	Cat. No.	-20%	
			Price	Now
ml			GBP	GBP
1	5	6.314 007	13.58	10.86
2	5	6.314 008	12.34	9.87
5	5	6.314 009	17.68	14.14
10	5	6.314 010	23.07	18.46
20	5	6.314 011	36.32	29.06
50	5	6.314 012	120.13	96.10

Bottletop dispenser LLG-uniTOPDISPENS 2



- High chemical resistance due to springless PTFE valve block and PTFE piston including chemically resistant ETP O-ring
- Glass cylinder made of borosilicate glass 3.3
- Specially developed cylinder adapter enables 360° rotation
- Five bottle adapters included (28 mm, 32 mm, 37 mm, 40 mm and 45 mm), standard thread: 30 mm
- Fully autoclavable at 121 °C, 15 psi for 10 to 15 min
- Individually calibrated according to ISO 8655 standards, each unit is supplied with an individual calibration certificate
- The corresponding compatibility list can be found at www.llg-labware.com in the Downloads section.
- 3-year warranty



-16%

Volume	Graduations	Accuracy max. vol. (± R%)	Precision max. vol. (≤ CV%)	PK	Cat. No.	Price	Now
ml	ml					GBP	GBP
0.25 - 2.5	0.05	0.6	0.2	1	6.282 275	125.36	105.30
0.5 - 5	0.1	0.6	0.2	1	6.282 276	125.36	105.30
1 - 10	0.2	0.6	0.2	1	6.282 277	125.36	105.30
2.5 - 30	0.5	0.6	0.2	1	6.282 278	146.25	122.85
5 - 60	1.0	0.6	0.2	1	6.282 279	146.25	122.85
10 - 100	2.0	0.6	0.2	1	6.282 280	170.77	143.45

Laboratory bottle, DURAN® amber glass, with screw cap and pouring ring made of PP



- UV protection up to approx. 500 nm
- ISO 4796-1
- USP standard
- Retrace code
- Autoclavable

-27%

Capacity	Dimensions (dia. x H)	Neck thread	PK	Cat. No.	Price	Now
ml	mm	GL			GBP	GBP
25*	36 x 74	25	1	6.262 931	21.38	15.61
50	46 x 91	32	1	7.671 498	21.04	16.02
100	56 x 105	45	1	6.262 932	24.28	17.72
250	70 x 143	45	1	9.071 961	34.55	25.22
500	86 x 181	45	1	6.259 101	44.51	32.49
1000	101 x 230	45	1	6.259 102	54.47	39.76
2000	136 x 265	45	1	6.259 797	84.34	61.57

* With specially shaped glass rim for better pouring, thus an additional pouring ring made of plastic is not necessary.

Bottle top burette Titrette®



- High Accuracy
- Compact Design, Lightweight and Stable
- Easy Maintenance and Cleaning

- High accuracy
- Smooth-running operation for sensitive, drop-wise titration and fast filling of the device
- No switching between fill and titrate

Items supplied: Titrette® bottle-top burette, DE-M marking, performance certificate, telescoping filling tube (170 to 330 mm), recirculation tube, 2 x 1.5 V batteries (AAA/UM4/LR03), 4 x PP bottle adapters (GL45/32, GL 45/38, GL 45/S40 and GL32/NS 29/32), 2 coloured light shield inspection windows, operating manual

-13%

Volume	Accuracy max. vol. (± R%)	Precision max. vol. (≤ CV%)	PK	Cat. No.	Price	Now
ml					GBP	GBP
10	0.10	0.05	1	6.259 209	822.05	723.88
25	0.07	0.025	1	9.271 332	822.05	723.88
50	0.06	0.02	1	9.271 333	822.05	723.88

Automatic burettes with splinter protection, Schilling pattern, borosilicate glass 3.3



Burette according to Dr. Schilling with splinter protection, with Schellbach stripes, automatic zero point extraction and Bürkle dosing device.

- Adjusted to Ex
- Shatterproof, resistant to chemicals
- Exact spout tip, fine droplet formation
- Parts in contact with the medium: PE, natural rubber, PP, Borosilicate glass



-19%

Capacity	Grad.	Tolerance	Height	PK	Cat. No.	Price	Now
ml	ml	± ml	mm			GBP	GBP
15	0.1	0.045	520	1	6.280 403	64.89	52.56
25	0.1	0.075	650	1	6.280 404	64.89	52.56
50	0.1	0.075	920	1	6.280 405	73.35	59.41

Single channel microliter pipettes Acura® manual 825, variable



This pipette line was developed with the highest customer demands in mind.

- User-friendly, slim shape, low weight.
- Justip™ tip adjustment concept, patented.
- Integrated InLab calibration system, patented
- Fully assembled autoclavable at 121 °C
- 3-year warranty

-26%

Capacity	Increments	Accuracy max. vol. (± R%)	Precision max. vol. (≤ CV%)	PK	Cat. No.	Price	Now
µl	µl					GBP	GBP
0.1 - 2	0.002	2.0	1.5	1	9.411.590	243.00	179.82
0.5 - 10	0.01	1.0	0.5	1	9.411.591	243.00	179.82
1 - 10	0.01	1.0	0.7	1	9.411.592	227.79	168.56
2 - 20	0.02	1.0	0.5	1	9.411.593	227.79	168.56
5 - 50	0.1	1.0	0.4	1	9.411.594	227.79	168.56
10 - 100	0.1	0.8	0.2	1	9.411.595	227.79	168.56
20 - 200	0.2	0.6	0.2	1	9.411.596	227.79	168.56
100 - 1000	1	0.5	0.2	1	9.411.597	227.79	168.56

LLG-Labware pipette tips, economy 2.0, PP



The new generation of LLG Labware Pipette tips economy. Racked-tip boxes are delivered in a dispenser, which can be opened from two sides facilitating the use of the product in two workspaces. Compatible with all common pipette brands. You can find the appropriate compatibility list on www.llg-labware.com in the Downloads section.

- Improved optical clarity and pipette fit
- Coloured coded rack inserts for easy identification
- Autoclavable
- DNase and RNase-free

-20%

Capacity	Colour	Package contents	PK	Cat. No.	Price	Now
µl					GBP	GBP
0.1 ... 10	transparent	10 x 96	960	4.668.776	31.48	25.18
0.1 ... 10	transparent	10 x 96	960	6.491.406	25.26	28.21
1 ... 200	transparent	10 x 96	960	4.668.778	30.46	24.37
1 ... 200	yellow	10 x 96	960	4.668.779	30.46	24.37
100 ... 1000	transparent	8 x 96	768	4.668.782	28.80	23.04
100 ... 1000	blue	8 x 96	768	4.668.783	27.18	21.74

Pipette stands Twister™ universal 336 for single channel microliter pipettes



Unique design 6-position pipette workstation with great characteristics. Model fits six pipettes of most brands providing for an ideal storage solution in any laboratory. Rotation enables quick instrument selection. Easy disassembling for simple maintenance.

-23%

Colour	PK	Cat. No.	Price	Now
			GBP	GBP
Sapphire blue	1	6.253.916	104.49	80.46

LLG-Disposable Reagent reservoirs economy, PS



Made from polystyrol. Designed for use with multi-channel pipettes and can accommodate up to 12-channel standard pipettes. Available as sterile and non-sterile versions.

- DNase-, RNase- and pyrogen-free certified.

-20%

Capacity	Description	PK	Cat. No.	Price	Now
ml				GBP	GBP
25	non-sterile, bulk	100	6.282.144	20.46	16.37
25	sterile, single packed	100	6.282.145	28.64	30.91
50	non-sterile, bulk	100	6.282.146	26.82	21.46
50	sterile, single packed	100	6.282.147	54.63	43.70

Macro pipette controllers



The handwheel allows precise suction of the liquid into the pipette with one hand.

-38%

For	PK	Cat. No.	Price	Now
			GBP	GBP
Pipette volume up to 2 ml	1	4.008 322	8.40	5.21
Pipette volume up to 10 ml	1	4.008 323	8.40	5.21
Pipette volume up to 25 ml	1	4.008 324	8.81	5.46

Pipette tray, PVC



PVC. Tidy tray. With 4 long compartments for approx. 30 graduated pipettes (1 ml to 20 ml).

-38%

Dimensions (W x D x H)	PK	Cat. No.	Price	Now
mm			GBP	GBP
426 x 300 x 30	1	9.200 394	25.26	15.66

Volumetric pipettes, USP, class AS, AR-glass®, blue graduation



BLAUBRAND®, DE-M marking. DIN EN ISO 648. Calibrated to deliver (TD, EX). Marks and inscriptions in high-contrast blue enamel. Incl. one USP batch certificate. The batch certificate or individual certificate is also available to download from the manufacturer's website.



-32%

Volume	Tolerance	Overall length	PK	Cat. No.	Price	Now
ml	± ml	± 10 mm			GBP	GBP
0.5*	0.005	300	1	6.262 520	7.27	4.94
1	0.006	300	1	6.659 228	5.75	3.91
2	0.006	330	1	6.262 521	5.75	3.91
3	0.01	330	1	6.262 522	7.02	4.77
4	0.01	400	1	6.262 523	8.14	5.54
5	0.01	400	1	6.659 239	7.02	4.77
10	0.02	440	1	6.659 240	7.24	4.92
20	0.03	510	1	6.262 529	8.76	5.96
25	0.03	520	1	6.262 530	8.98	6.11
50	0.05	540	1	6.262 532	11.81	8.03

* Error limit USP ±0.006 ml

Pasteur pipettes, PE



Disposable pipettes with fine tips for precise dispensing. Length: 150 mm

- With suction ball
- Graduated
- Non-sterile in multi-packs

-39%

Nominal capacity	PK	Cat. No.	Price	Now
ml			GBP	GBP
1	500	6.206 154	15.71	9.58
3	500	6.206 772	15.71	9.58

Pipettes, Pasteur, PE



For transfer of liquids. Resistant against almost all acids. Soft and elastic bulb.

-25%

Type	Capacity	Length	Sterile	Graduations	PK	Cat. No.	Price	Now
	ml	mm					GBP	GBP
Standard	1.0	150	-	+	500	9.411 031	13.04	10.43
Standard, single wrapped*	1.0	150	+	+	500	9.411 038	26.84	27.63
Standard	1.5	230	-	+	400	7.200 111	15.09	11.32
Standard	2.0	153	-	+	500	7.631 961	27.86	20.90
Standard	2.5	150	-	+	500	6.229 723	24.19	18.14
Macro	3.0	155	-	+	500	9.411 030	11.30	8.48
Macro, single wrapped	3.0	150	+	+	500	9.411 035	28.21	28.66
Macro	3.0	155	+	+	500	4.653 509	26.51	27.38
Standard	4.0	150	-	-	500	6.234 514	14.36	10.77
Macro	6.0	149	-	-	400	9.411 034	23.00	17.25
Standard, with ring mark	10.0	170	-	-	200	9.411 033	15.35	11.51
Standard	10.0	300	-	-	100	6.203 402	29.06	21.80

* Total volume

UV sterilisation cabinets



- Ideal for PCR Preparations
- Efficient Decontamination with UV Light
- Doors with Safety Switches



Cost-effective alternative to cleanrooms for PCR in nucleic acid-free environments. The four powerful UV lamps denature nucleic acids safely in 5 to 30 min. user from UV light thanks to safety switches in the doors. Timer function for UV lamp. The chamber made of 10 mm acrylic also serves as an efficient shield against beta radiation emissions and can therefore be used safely with isotopes such as ³²P.

Specifications

UV Lights:	Maxi/Midi/Mini
White Lights:	4 x 15 W
Dimensions (H x W x D):	15
	770 x 580 x 420 mm /
	620 x 580 x 420 mm /
	450 x 580 x 350 mm
Weight:	19 kg/14.6 kg/12 kg

-17%

Description	PK	Cat. No.	Price	Now
			GBP	GBP
UV sterilisation cabinets Maxi with timer, four UV lights and white light	1	9.584 774	2,126.56	1,765.04
General purpose tray white, 680 x 540 mm	1	6.258 034	98.84	82.04
Radiation hazard tray yellow, 680 x 540 mm	1	9.584 788	118.17	98.08

DNA AWAY™ for surface decontaminant



Eliminates unwanted DNA and DNase from glassware and plasticware without affecting subsequent DNA samples. Degrades DNA more quickly and effectively than autoclaving.

This product is a disinfectant containing biocides. Please inquire about its availability and legal information.

-40%

Type	Capacity	PK	Cat. No.	Price	Now
				GBP	GBP
MBP DNA Away®	250 ml	1	6.228 401	22.17	13.30

LLG-96-well PCR Plates, PP

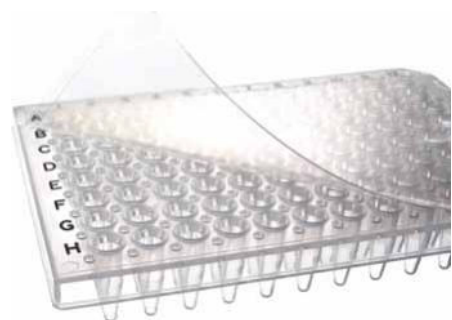


- Clear well bottom for sample visibility, with V-Bottom
- Compatible with thermocyclers of all leading brands
- Consistent wall thickness for uniform heat transfer
- Holes in the skirt for easy handling
- Virgin polypropylene, certified RNase-, DNase- and Endotoxin-free

-16%

Description	Capacity	PK	Cat. No.	Price	Now
	µl			GBP	GBP
96 Well Plate, skirted	200	50	6.313 409	170.22	142.98
96 Well Plate, non-skirted	200	100	6.313 408	201.69	169.42
96 Well Plate, half skirted	200	50	6.313 394	165.23	138.79

LLG-PCR adhesive film and foil



For use in cycles with screw-down or clip-down lids.

PCR Film: Clear film enables visual inspection of samples and fluorescence measurements.

PCR Foil: Aluminium, easy to pierce, no adhesive residue on the pipette tips.

QPCR Foil: Adhesive seal optically clear, peelable, for QPCR and fluorescence applications.

-16%

Description	Temp. range	PK	Cat. No.	Price	Now
	°C			GBP	GBP
PCR film	-40 ... 102	100	6.313 398	38.82	32.61
PCR foil	-80 ... 104	100	6.313 400	71.24	59.84
QPCR foil	-70 ... 100	100	6.313 399	168.77	141.77

Greenough-Stereomicroscope
Educational-Line OSE



Ideal for Schools and Training Purposes



- Ideal for workshops, schools and training.
- Tube 45° inclined
 - WF 10x/ Ø 20 mm
 - Diopter adjustment: Both-sided
 - Illumination 1 W LED incident and transmitted
 - Integrated handle and arm curved stand

Total dimension (W x D x H): 230 x 130 x 300 mm
 Weight: 2.0 kg
 Power supply: 230 V/50 Hz, battery

-25%

Type	Description	Magnification	PK	Cat. No.	Price	Now
OSE 421	Binocular	2x / 4x	1	4.666 529	279.00	209.25
					GBP	GBP

Staining jar, PMP (TPX®),
Hellendahl pattern



Accepts 16 slides 76 x 26 mm (8 pairs back to back).
 Transparent, with grooves. Complete with lid.

-42%

Dimensions (W x D x H)	PK	Cat. No.	Price	Now
mm			GBP	GBP
58 x 53.5 x 86	1	9.161 350	9.48	5.50

Phase contrast microscopes
Professional line OBN



This series features professional Köhler illumination with an adjustable field diaphragm and Infinity optics. A C-mount adapter is required to connect a camera (optional).

OBN 158:

- Phase contrast microscope, incl. centring eyepiece
- Objective: 4x, 10xPH, 20xPH, 40xPH, 100xPH
- 5-fold condenser wheel with 10x/20x/40x/100x Infinity PH plan objectives (complete set)
- Including blue and green colour filter

OBN 159:

- Trinocular
- Tube 30° inclined, 360° rotatable
- Eyepieces: HWF 10x/20 mm
- Dioptre compensation on both sides
- 5x nosepiece
- Objective quality: Infinity Plan
- Coaxial coarse and fine drive

Scope of supply: Phase contrast microscope, centring eyepiece, protective dust cover, eyecups, user manual

-25%

Type	Lighting	PK	Cat. No.	Price	Now
OBN 158	20 W halogen	1	4.666 528	2,673.00	2,004.75
OBN 159	3 W LED	1	6.491 267	2,691.00	2,018.25
				GBP	GBP

LLG-Slide dispenser



The slide dispenser can dispense 72 slides individually. By turning the knob, one slide is dispensed. Only dry slides should be inserted into the storage magazine. With a transparent, removable upper section for easy viewing of remaining slides and clean storage. For microscope slides with dimensions 75 x 25 mm and 76 x 26 mm.

-20%

Type	PK	Cat. No.	Price	Now
Dispenser	1	9.161 000	18.24	14.59
			GBP	GBP

Spectrophotometer LLG-uniSPEC 2



High-quality and cost-efficient UV/VIS spectrophotometers for pharmaceutical, biochemical and clinical lab applications. Suitable for different measurement types such as kinetics, wavelength scans, quantitative analysis, multi-wavelength and DNA/Protein analysis.

- Single beam system, grid with 1200 lines/mm
- Silicon photodiode detector
- Parallel port for printer output
- USB port
- 4-position cell holder (10 mm) included
- Additional cell holders are optionally available
- LCD
- Deuterium and tungsten lamp
- Automatic wavelength adjustment

Scope of supply: LLG-uniSPEC 2 Photometer, software for connection to PC, 4 glass cells, and 2 quartz cells.

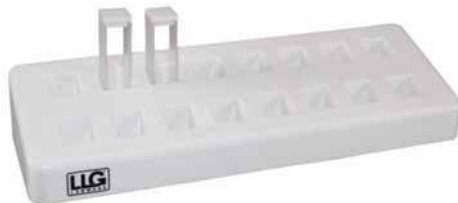
Specifications

Optical System:	Single beam
Wavelength range:	190 to 1100 nm
Bandwidth:	2 nm
Wavelength accuracy:	±0.5 nm
Stray light:	≤0.1%T
Display:	128 x 64 Dots LCD
Dimension (W x D x H):	460 x 360 x 225 mm
Weight:	18 kg
Power supply:	220 V/50 Hz or 110 V/60 Hz

-13%

Type	Plug type	PK	Cat. No.	Price	Now
				GBP	GBP
LLG-uniSPEC 2 EU		1	6.263 610	2,381.24	2,071.68

LLG-Cuvette rack, PP



Ideal for storing up to 16 cuvettes with a 12.5 mm width. The two-tier arrangement of the cuvette rows ensures clarity.

- Numbered positions
- Autoclavable at 121 °C

-25%

Length	Width	Height	PK	Cat. No.	Price	Now
mm	mm	mm			GBP	GBP
210	70	35	1	4.682 061	8.64	6.48

Densitometer DEN-600



Portable densitometer for OD600 method, McFarland (McF) turbidity method measurement and Bradford protein assay method for protein concentration.

- LCD
- Battery mode possible
- Software for measurement, results, upload and analysis (USB connectivity)
- Compatible with cuvettes, round bottom tubes and falcon tubes (10 mm)

Specifications

Light source:	LED
Measuring range absorbance:	0 ... 3.000
Measuring range McFarland:	0.00 ... 16.00
Accuracy absorbance:	±0.006 at 1 Abs
Accuracy McFarland:	±0.1 at 0 ... 8 McF
Power supply:	100 ... 240 V 50/60 Hz or lithium-ion polymer battery

-12%

Type	Wave-length nm	Dimensions (W x D x H) mm	Weight kg	PK	Cat. No.	Price	Now
						GBP	GBP
DEN-600	600 ± 10	120 x 145 x 65	0.5	1	4.684 303	824.40	725.47

Macro and semi micro cuvettes



Sorted by mould cavity number. PMMA or PS. Path length: 10 mm.

Quality characteristics:

- Minimal extinction value variation
- Optically perfect transmission range
- Recessed window to protect against scratches
- Arrowhead marking shows the direction of transmission

Polymethylmethacrylate (PMMA) cuvettes

- Typical operating range: from 300 nm to 900 nm
- Standard deviation at 320 nm ±0.004 extinction units

Polystyrene (PS) cuvettes

- Typical operative range: from 340 nm to 900 nm
- Standard deviation at 360 nm ≤ ±0.005 extinction units

Dimensions: 12.5 x 12.5 x 45 mm
 Window: Macro cell 10 x 35 mm
 Semi micro cell 4.5 x 23 mm

-22%

Description	Volume ml	Operating range nm	Material	PK	Cat. No.	Price	Now
						GBP	GBP
Macro	2.5 to 4.5	300 to 900	PMMA	100	9.406 111	12.92	10.08
Semi-micro	1.5 to 3.0	300 to 900	PMMA	100	9.406 115	13.57	10.58
Macro	2.5 to 4.5	340 to 900	PS	100	9.406 110	9.72	7.58
Semi-micro	1.5 to 3.0	340 to 900	PS	100	9.406 114	10.15	7.92

Reflectance spectrophotometer TR 515



- Switchable Aperture
- Incl. Calibration Plates



Ergonomic and flexible reflectance spectrophotometer for measuring samples in the fields of food, medicine, coatings and plastics. With a camera-based, integrated localisation device and black and white calibration plates.

- CMOS sensor (256 picture elements, double array)
- Intuitive 3.5 inch TFT colour LCD (capacitive), symbol-based
- Free PC-based OnShade software, which allows graphs and statistical process control
- Operation languages: EN, FR, DE, ES
- Switchable aperture (\varnothing 8 mm / \varnothing 4 mm) for adapting the measurement size to the surface
- Can determine accurate colour difference values, formulas and indices in common colour spaces

Scope of supply: Reflectance spectrophotometer, OnShade PC software, black and white calibration board (white tile and black light trap), dust cover, USB cable, external DC power supply, USB stick with user manual in English and Chinese, carrying case

Specifications

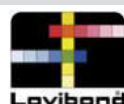
Optical geometry:	45°/0°
Colour difference formula:	ΔE^*ab , ΔE^*uv , ΔE^*94 , ΔE^*cmc (2:1), ΔE^*cmc (1:1), ΔE^*00v , ΔE (Hunter)
Spectral range:	400 ... 700 nm
Spectral interval:	10 nm
Memory:	1000 standards, 30000 samples
Interface:	USB, Bluetooth® 4.0
Light source:	combined LED light, UV light
Dimensions (W x D x H):	184 x 105 x 77 mm
Weight:	600 g
Power supply:	Li-ion battery



Type	Aperture	PK	Cat. No.	Price	Now
	mm			GBP	GBP
TR 515	10/8 + 5/4	1	6.325 549	7,018.65	6,667.72

-5%

Cells W600



Cells made of optical glass or Borosilicate glass 3.3, 21 x 40 mm, for instrument Models Fs, PFXi/PFX195, 880, 950 and 995. (Note: PFXi/PFX-195 max. path length 50 mm).

W600/OG/xx for unheated samples (up to 40 °C)
W600/B/xx for heated samples (up to max. 100 °C)

Further versions are available on request.

Type	Path length	Material	PK	Cat. No.	Price	Now
	mm				GBP	GBP
W600/OG/10	10	optical glass	1	6.207 120	51.00	49.31
W600/OG/1"	25.4	optical glass	1	9.947 342	59.59	56.61
W600/OG/33	33	optical glass	1	6.093 322	71.15	67.59
W600/OG/50	50	optical glass	1	6.207 119	80.77	76.73
W600/OG/100	100	optical glass	1	6.235 055	149.99	142.49
W600/OG/5¼"	133.35	optical glass	1	9.947 343	111.50	105.93
W600/B/10	10	Borosilicate glass 3.3	1	6.241 927	65.30	62.12
W600/B/33	33	Borosilicate glass 3.3	1	6.086 921	92.30	87.69
W600/B/100	100	Borosilicate glass 3.3	1	6.253 940	192.27	182.66
W600/B/5¼"	133.35	Borosilicate glass 3.3	1	9.947 345	144.23	137.02

-5%

LLG-Cuvettes, glass



LLG-Cuvettes have two clear windows and two side walls, and they are available as optical glass or in quartz variants. The walls and the base are polished inside and frosted outside. The thickness of the windows and the base is 1.25 mm. The overall height of standard-type cells is 45 or 48 mm. Each cuvette is supplied with a PTFE lid.

- Optical Glass: 335 to 2500 nm
- Quartz: 200 to 2700 nm

Type	Volume	Path length	PK	Cat. No.	Price	Now
	ml	mm			GBP	GBP
quartz glass	3.5	10	2	4.681 513	67.89	57.03
quartz glass	17.5	50	2	4.681 514	241.97	203.25
optical glass	3.5	10	4	4.681 515	45.85	13.31
optical glass	17.5	50	4	4.681 516	33.93	28.50

-16%

LLG-pH electrode with gel electrolyte



Basic pH combination electrode with plastic shaft, gel reference system and temperature sensor. Suitable for all pH meters with DIN plug and 4-mm banana plug.

Temperature range: 0 ... 80 °C
 pH range: 0 ... 14 pH
 Length/Ø: 120/12 mm
 Temperature sensor: NTC 30kΩ
 Cable length: 1 m
 Electrolyte: Gel
 Diaphragm: Fibre

-16%

Type	PK	Cat. No.	Price	Now
LLG-pH electrode with gel electrolyte	1	4.681 924	144.10	121.04

Technical pH buffer solutions



Colour coded. Tested and ISO 17025 Certified at 25 °C. Uncertainty of measurement ±0.02 pH. Temperature dependence data is printed on the label as are lot numbers and expiry dates. These pH buffer solutions are suitable for use where very accurate measurements are required and are supplied with a detailed Certificate of Analysis which outlines traceability to N.I.S.T (the N.I.S.T SRM(s) Lot No. is stated on the certificate). This item has a 12 to 36-month shelf life from the date of manufacture depending on pH value.

-42%

pH-value at 25 °C	Colour	Capacity ml	PK	Cat. No.	Price	Now
					GBP	GBP
2.00	Red	250	1	9.040 949	21.98	12.75
4.01	Red	250	1	9.040 950	21.98	12.75
7.00	Yellow	250	1	6.240 744	21.98	12.75
9.21	Blue	250	1	9.040 951	21.98	12.75
10.00	Blue	250	1	6.240 745	21.98	12.75
4.01	Red	500	1	6.206 907	25.02	14.51
7.00	Yellow	500	1	6.229 762	25.02	14.51
4.01	Red	1000	1	9.040 955	35.21	20.42
7.00	Yellow	1000	1	6.238 677	35.21	20.42
10.00	Blue	1000	1	6.238 676	35.21	20.42

LLG-Universal Indicator strips "Premium" in a vial with a snap lid



A flip-top vial is easy to open and close with one hand. The new LLG pH strips offer the utmost convenience and ease of use in laboratory-grade testing. With a single colour match, and a 12 mm reagent pad, these universal pH strips (0.0-14.0) belong in every lab.

- pH measuring range: 0 - 14
- 12 mm matching area for quick matches,
- Flip-top vial stays closed when dropped but is easy to open with one hand.
- Vial keeps strips safe from the elements
- 1 pack (vial) of 100 strips

-25%

Range	PK	Cat. No.	Price	Now
pH			GBP	GBP
0 ... 14	100	9.129 808	11.11	8.33

pH-Fix indicator strips, special



For determination of pH-value. Permanent colour. Non-bleeding.

-20%

Range	PK	Cat. No.	Price	Now
pH			GBP	GBP
1.7 ... 3.8	100	9.130 386	13.21	10.57
2.0 ... 9.0	100	9.130 380	12.75	10.20
3.6 ... 6.1	100	9.130 387	12.64	10.11
4.0 ... 7.0	100	6.280 450	13.21	10.57
4.5 ... 10.0	100	9.130 383	12.75	10.20
6.0 ... 10.0	100	9.130 392	12.75	10.20
7.5 ... 9.5	100	9.130 390	12.75	10.20

Laboratory instrument inoLab® pH 7110

Basic pH/mV laboratory instrument for all tasks where reliable, accurate readings are required quickly and easily. With a large LCD segment display and an easy-to-read keyboard.

Scope of supply: Instrument, mains power adapter, stand.

Specifications

Ranges: All values ± 1 digit
 pH: -2.0 ... 20.0 ± 0.1 pH
 -2.00 ... 20.00 ± 0.01 pH
 -2.000 ... 19.999 ± 0.005 pH
 mV: $\pm(1200.0 \pm 0.3)$ mV
 $\pm(2000 \pm 1)$ mV
 Calibration: 1-, 2- or 3 point WTW technical buffer or DIN/NIST
 Temperature: -5.0 ... 105.0 $^{\circ}\text{C} \pm 0.1$ $^{\circ}\text{C}$
 Power supply: Universal power supply 100 to 240 V, 50/60 Hz,
 4 x 1.5 V AA or 4 x 1.2 V NiMH rechargeable batteries



- AutoRead Function
- High Measuring Range



-14%

Type	Description	PK	Cat. No.	Price	Now
				GBP	GBP
pH 7110	Stand-alone instrument with DIN connection	1	9.920 090	700.20	602.17
pH 7110 SET 2	Instrument incl. SenTix® 41, buffer 4.7 / 10.01 and 3 mol/l KCl	1	9.920 091	905.40	778.64
pH 7110 SET 4	Instrument incl. SenTix® 81, buffer 4.7 / 10.01 and 3 mol/l KCl	1	9.920 092	931.50	801.09

pH meter FiveGo™ F2



- Portable pH Meter
- For Field and Laboratory use

Portable pH meter for field work and laboratories.

- Measurement made easy: A large, well-structured display, intuitive button arrangement, and simple menu ensure measurements can be performed in just a few clicks
- IP67 Water and dustproof.

Scope of delivery:

F2-Meter: Meter only
F2-Standard kit: Meter with LE438 sensor



Specifications

pH
 Measuring range: 0.00 ... 14.00
 Resolution: 0.01
mV
 Measuring range: -1999... 1999 mV
 Resolution: 1 mV
 Temperature Compensation: ATC and MTC
 Calibration: 3 points, 4 predefined buffer groups
 Memory size: 200 measurements, current calibration
Temperature
 Measuring range: 0 ... 100 $^{\circ}\text{C}$
 Resolution: 0.1 $^{\circ}\text{C}$

-25%

Type	PK	Cat. No.	Price	Now
			GBP	GBP
F2-Meter	1	6.280 111	320.40	240.30
F2-Standard kit	1	6.280 112	477.00	357.75

Conductivity Pocket Tester Elite CTS Pin/Cup

The Elite CTS pocket tester simultaneously displays conductivity/TDS/salinity with temperature. With a leakproof, transparent wide-base cap for upright standing with a fill line indicator.

- 1-push calibration
- Large 4-digit double line display
- Backlit graphic display
- Auto-hold readings
- Easy-to-operate, intuitive keypad
- Auto-off

Scope of supply:
Elite CTS Pin/Cup:
 Tester incl. batteries, lanyard

Elite CTS Pin/Cup Kit:
 Tester incl. batteries, lanyard, soft carry case, CTS conductivity Standard Sachets (5 x 1413 $\mu\text{S}/\text{cm}$ KCl and 5 x 2764 $\mu\text{S}/\text{cm}$ KCl)



Specifications

Conductivity range: 0.0 μS ... 20.00 mS
 TDS range: 0.0 ... 10000 ppm
 Salinity range: 0 ... 10000 ppm
 Resolution: 100 ppm
 Temperature range: 0 ... 60.0 $^{\circ}\text{C}$
 Resolution: 0.1 $^{\circ}\text{C}$
 Operating temperature: 5 ... 45 $^{\circ}\text{C}$
 Relative humidity: 5 ... 85%, non-condensing
 Temperature compensation: ATC
 Power supply: 4 x AAA 1.5 V batteries
 IP code: IP 67

-20%

Type	PK	Cat. No.	Price	Now
			GBP	GBP
Elite CTS Pin	1	6.290 132	109.19	87.35
Elite CTS Pin Kit	1	6.290 138	126.47	101.18
Elite CTS Cup	1	6.290 133	132.04	105.63
Elite CTS Cup Kit	1	6.290 139	126.47	101.18



ChemoSampler, PP



Grey. For sampling aggressive liquids, e.g. acids, alkalis, detergents. The samples are drawn directly into the screw-on original sampling bottle. The tamperproof bottle closure of these bottles with the original safety ring ensures unadulterated sample transport.

- Resistant to acids and alkalis
- Incl. sample bottle 1000 ml
- An extension rod 100 cm is available as an accessory

-23%

Length	PK	Cat. No.	Price	Now
mm			GBP	GBP
1000	1	9.303 940	83.48	64.28

Vampire Sampler



The self-priming peristaltic pump is also suitable for dirty or particle-containing substances with a maximum viscosity. 500 mPas. Ideal for sampling from barrels, tanks, wells, water separators, wastewater and sewage treatment plants. The samples are fed directly into the sample container via the closed hose system.

- Battery-powered hose pump
- Suction depth up to 5 metres

Scope of supply: Drive unit, pump head, pump hose (30 cm, Marprene), suction hose (5 m, PE), hose connector (PP), sample bottle (250 ml, LDPE), bottle basket, two rechargeable batteries, battery charger

-5%

Type	PK	Cat. No.	Price	Now
			GBP	GBP
Vampire sampler, complete	1	9.303 851	961.88	913.79

Disposable scoops SteriPlast®, PS



White. The scoops are also available with a transparent cover to close them immediately after the sampling procedure to secure a sterile and contamination-free sample.

- Individually packed
- Gamma-sterilized
- Production, assembling and packaging acc. to Cleanroom class 7 (10000)
- According to EU food and FDA guidelines

-19%

Capacity	Length	PK	Cat. No.	Price	Now
ml	mm			GBP	GBP
25	141	10	6.265 037	17.06	13.82
50	160	10	6.265 039	17.69	14.33
100	205	10	6.265 041	18.27	14.80
150	216	10	6.265 043	18.68	15.13
250	232	10	6.269 512	22.82	18.48
500	280	10	6.269 514	40.37	32.70
500	283	10	6.269 515	68.58	55.55
1000	332	10	6.284 542	62.19	50.37
2000	381	10	4.680 855	71.91	58.25

Disposable spoons SteriPlast®, PS



White. The spoons are ideal for sampling powders, granules and pastes.

- Individually packed
- Gamma-sterilised
- Production, assembly and packaging acc. to Cleanroom class 7 (10000)
- According to EU food and FDA guidelines

-17%

Capacity	Length	PK	Cat. No.	Price	Now
ml	mm			GBP	GBP
2.5	127	100	6.265 045	27.76	31.34
10	170	100	6.265 046	40.14	33.32

Erlenmeyer flasks, wide mouth, GL 45, PP, with blue screw neck



Transparent. Suitable for storage and cultivation of cell cultures. To preserve markings, do not clean at temperatures exceeding 60 °C.

- Suitable for microwaves
- Food-safe products according to EC Directive No. 10/2011

-33%

Nominal capacity	Grad.	PK	Cat. No.	Price	Now
ml	ml			GBP	GBP
75	10	1	9.141 000	4.32	2.89
125	20	1	9.141 001	4.87	3.26
250	50	1	9.141 002	6.94	4.65
500	100	1	9.141 003	8.01	5.37
1000	200	1	9.141 004	10.63	7.12

Mortars only, porcelain



To DIN 12906. With spout, pestle not supplied. Glazed externally. Inside rough.

-16%

Capacity	Int. diam.	Height	PK	Cat. No.	Price	Now
ml	mm	mm			GBP	GBP
70	65	40	1	9.164 206	17.87	15.01
170	90	55	1	9.164 209	26.81	22.52
400	130	65	1	9.164 212	45.64	38.34
700	150	70	1	9.164 215	69.09	58.04
1000	180	80	1	9.164 218	165.23	138.79

Laboratory Blender Waring® 8011



Versatile laboratory mixer ideally suited for general laboratory work supplied either with a 1 L stainless steel container or a 1.2 L glass container.

- Two velocity settings (18000 or 22000 rpm)
- Epoxy-coated motor housing
- Two-piece lid vinyl/styrene

Scope of supply: Mixer, container (stainless steel or glass) with handle and lid

-22%

Type	With	PK	Cat. No.	Price	Now
				GBP	GBP
8011EG	Glass container, 1.2 l	1	6.284 693	839.84	655.08
8011ES	Stainless steel container, 1 l	1	6.284 694	941.18	734.12

Pestles only, porcelain



To DIN 12906. With a glazed handle. Unglazed grinding surface.

-20%

Head diam.	Length	Nominal diam.	PK	Cat. No.	Price	Now
mm	mm	mm			GBP	GBP
24	115	50 / 63	1	9.164 306	12.31	9.85
30	135	90	1	9.164 309	14.27	11.42
36	150	125	1	9.164 312	20.46	16.37
42	175	150	1	9.164 315	29.31	23.45
55	210	180	1	9.164 318	38.68	30.94

Nominal size = mortar internal diameter

Heating oven, ED 23, with gravity convection



Diversity for all types of thermal, whether efficient drying, long-term controlled elevated temperatures or sterilization tasks for homogeneous temperature distribution.

- Equipment:
- Temperature range from 5 °C above ambient temperature to 300 °C
 - Independent adjustable temperature safety device class 2 (DIN 12880), with visual temperature alarm

-11%

Nom. capacity	Max. grids	Included grids	External dimensions (W x D x H) mm	PK	Cat. No.	Price	Now
L						GBP	GBP
20	4	2	435 x 520 x 495	1	9.883 529	1,626.30	1,447.41

Safety Gloves Clavies®, Heat Protection up to 232 °C



Soft, pliant, all-cotton terry cloth gloves are superb for handling hot objects out of the autoclave or oven, or for other heat protection in the lab, school or industry. Note: Gloves are not waterproof and should not be used to handle dry ice.
1 pair per pack.

-39%

Length gauntlet mm	Overall length mm	PK	Cat. No.	Price	Now
				GBP	GBP
130	330	1	9.005 271	55.37	33.78
280	470	1	9.005 272	75.33	45.95

Peltier-recirculating chiller TE 400



- Precise Temperature Control
- Touch Display
- Low Maintenance Requirements

New



Robust Peltier chiller with precise temperature control for simple temperature control tasks in laboratories and research facilities. It works without refrigerant and is therefore very environmentally friendly and low-maintenance. The TE 400 offers a cooling capacity of up to 400 watts and a pump capacity of up to 7 l/min. The operating mode "Silent Mode" reduces the noise level by lowering the cooling power requirements.

- High-temperature stability
- Touch display for easy operation
- Economical and environmentally friendly operation thanks to high energy efficiency and low energy consumption
- RS232 interface
- Low-maintenance
- Pump connection thread M16x1 external thread

Specifications

Temperature:	-5 ... 40 °C
Temperature stability:	±0.02 °C
Max. Delivery rate:	7 l/min
Max. Delivery pressure:	1.2 bar
Cooling capacity at 20 °C:	0.4 kW
Heating capacity:	0.45 kW
Dimensions (WxDxH):	274 x 413 x 400 mm
Weight:	24 kg
Plug type:	EU/CH/UK/US
Power supply:	100 ... 230 V, 50/60 Hz

-5%

Type	PK	Cat. No.	Price	Now
			GBP	GBP
TE 400	1	6.492 490	4,770.00	4,531.50

Cryo Protection Gloves CRYOKIT 400

EN 511 EN 388 EN 420

 221 2231

tec-lab GmbH 



Suitable for all work with liquid nitrogen and other cryogenic gases up to approx. minus 196 °C. Protects against cold and contact burns in case of leakage of liquid gas.
 Interior insulation: polyester multi-layer fabric (410 g/m²) and polyolefin parallel membrane.
 According to normative EN 511, EN 420, EN 388, Cat III. Warning:
 Not intended for immersion in liquid nitrogen or other liquid cryogenes.
 1 pair per pack.

Size	Length	PK	Cat. No.	Price	Now
	mm			GBP	GBP
7	400	1	6.270 632	126.00	97.71
8	400	1	6.270 633	126.00	97.71
9	400	1	6.270 634	126.00	97.71
10	400	1	6.270 635	126.00	97.71
11	400	1	6.270 636	126.00	97.71

-23%

Cryogenic vial racks, PC



Heathrow Scientific
 design | function | innovation

- Drainage holes in each well
- Alphanumeric identification
- Temperature resistant up to -196 °C
- Autoclavable



-33%

Volume	Array	For tubes diam.	PK	Cat. No.	Price	Now
litres		mm			GBP	GBP
2 ... 5	50	12.9	4	6.238 908	102.20	68.47

Cooled incubators FOC series



- With Internal Sockets
- High Temperature Stability



Versatile cooled incubators with auto-tuning temperature control system for optimal temperature stability.

- 2-internal sockets for further devices
- Software TEMPSoft™ for setting times, temperatures, ramps and alarm thresholds
- Wireless (WIFI) and wired connectivity
- Life span counter for key components is built in
- Forced ventilation for uniform temperature distribution



Scope of supply: Cooled incubator, shelves

Specifications

Temperature range: 3 ... 50 °C
 Temperature accuracy: ±0.5 °C
 Display: 3-digit LCD
 Interface: Wi-Fi, 2 x RS485
 Power supply: 230 V, 50/60 Hz

-5%

Type	Nom. capacity	Included grids	External dimensions (W x D x H) mm	PK	Cat. No.	Price	Now
	L					GBP	GBP
FOC 120E	109	2	540 x 550 x 912	1	6.316 555	1,587.60	1,508.22
FOC 200E	169	3	540 x 550 x 1263	1	6.316 556	1,811.70	1,721.12

LLG-Cryotubes, PP, sterile



With a star shape in the screw cap, for an automated capper/uncapper. Temperature resistance down to -196 °C. **Not appropriate for operations in liquid nitrogen.** Printed graduations for accurate measurements. Large white area for writing specimen identification.



Packed in 2 bags of 50 tubes.

-20%

Capacity	Description	Thread	PK	Cat. No.	Price	Now
ml					GBP	GBP
1.2	Self-standing	External	100	9.401 160	19.96	15.97
1.2	Self-standing	Internal	100	9.401 161	19.96	15.97
2.0	Self-standing	External	100	9.401 162	19.96	15.97
2.0	Self-standing	Internal	100	9.401 163	19.96	15.97
2.0	Without ring	External	100	9.401 164	19.96	15.97
2.0	Without ring	Internal	100	9.401 165	19.96	15.97
5.0	Self-standing	External	100	9.401 166	19.96	15.97
5.0	Without ring	Internal	100	9.401 167	19.96	15.97
5.0	Self-standing	Internal	100	9.401 168	19.96	15.97

Grippers for cryogenic and vaccine vials, PP



For precise gripping and safe removal of cryogenic microtubes and vials, as well as crimped vaccine/serum vials from cold storage boxes. The set includes one gripper for cryogenic vials (Ø 13.5 mm) and one gripper for vaccine vials (Ø 21 mm).

- Ergonomic squeeze area
- Autoclavable at 121 °C



Heathrow Scientific
 design | function | innovation

New

-42%

Type	PK	Cat. No.	Price	Now
			GBP	GBP
Grippers	2	6.492 241	28.49	16.52

Ultrasonic cleaning units Elmasonic Select



- 4 Individual Cleaning Programs
- Autostart Function



Versatile ultrasonic baths with an ultrasonic frequency of 37 kHz, 5 ultrasonic modes (dynamic, pulse, sweep, degas, eco), heating and the possibility to save up to 4 individual cleaning programmes.

- Mode dynamic combines pulse and sweep modes for higher cleaning performance
- Mode pulse for powerful sample preparation
- Mode sweep for uniform cleaning throughout the bath
- Mode degas is optimised for degassing liquids
- Mode eco for quiet, energy-efficient operation and longer lifetime
- Digital control panel with wipeable membrane keypad and easy-to-read display for all operating states
- Setup menu for individual adjustment of the device functions
- Autostart function for temperature-controlled start of cleaning
- Dry run protection
- Adjustable limit temperature from 40 to 60 °C
- With stopcock (except Select 30 and 40)

Scope of supply: Ultrasonic bath, lid

Specifications

Temperature:	25 ... 80 °C
Sound pressure level (LpAU):	<80 dB
Ultrasonic sound level (LpZ):	<110 dB
Power supply:	220 ... 240 V~, 50/60 Hz
IP code:	IP 20

-22%

Type	Capacity of the bath litres	External dimensions (W x D x H) mm	PK	Cat. No.	Price GBP	Now GBP
Select 30	2.7	305 x 170 x 230	1	6.321 722	598.50	466.83
Select 40	3.9	305 x 170 x 280	1	4.684 652	895.50	698.49
Select 60	5.9	370 x 210 x 275	1	4.684 653	1,053.00	821.34
Select 80	9.3	570 x 195 x 280	1	4.684 654	1,224.00	954.72
Select 100	9.5	380 x 300 x 280	1	4.684 655	1,251.00	975.78
Select 120	12.9	380 x 300 x 330	1	4.684 656	1,611.00	1,256.58
Select 300	27.5	575 x 360 x 330	1	4.684 659	2,196.00	1,712.88

LLG-Erlenmeyer flasks, borosilicate glass 3.3, with a screw cap



Erlenmeyer flasks made of borosilicate glass 3.3, screw cap with PTFE liner.

- White graduation and labelling field
- GL thread

-20%

Capacity	Thread	PK	Cat. No.	Price GBP	Now GBP
100	32	2	4.686 198	10.70	8.56
250	32	2	4.686 199	13.50	10.80
500	32	2	4.686 200	16.78	13.42
1000	32	1	4.686 201	21.23	16.98

LLG Weighting Rings, Cast Iron, Vinyl Coated



To stabilise glassware in water or oil baths. The vinyl coating prevents vessels and apparatus from being scratched or marked.

-20%

For flasks ml	Int. diam. mm	PK	Cat. No.	Price GBP	Now GBP
100 ... 500	48	1	4.682 062	16.00	12.87
250 ... 1000	56	1	4.682 063	22.01	17.61
500 ... 2000	61	1	4.682 064	28.47	22.78
1000 ... 4000	74	1	4.682 065	40.82	32.66

Insert baskets for ultrasonic cleaning units Elmasonic Select

Aperture size:
11x15/10x10 mm



-22%

For bath type	Dimensions (W x D x H) mm	Max. load kg	PK	Cat. No.	Price GBP	Now GBP
Select 30	195 x 105 x 50	1	1	4.688 713	45.00	35.10
Select 40	195 x 105 x 95	3	1	4.688 714	52.20	40.72
Select 60	255 x 105 x 95	5	1	4.688 715	62.00	49.14
Select 80	455 x 105 x 55	5	1	4.688 716	117.00	91.26
Select 100	250 x 195 x 90	6	1	4.688 717	135.00	105.30
Select 120	250 x 195 x 135	7	1	4.688 718	135.00	105.30

Bunsen burner with needle valve



DIN 30665. Air regulation, pilot flame.

Rubber sucker base (Art. Nr. 9.018 360), please order separately.

-18%

Type	Height	Weight	PK	Cat. No.	Price	Now
	mm	g			GBP	GBP
Natural with needle valve	155	220	1	9.018 365	36.27	29.74
Propane with needle valve	155	220	1	9.018 366	36.27	29.74

Teclu burners with needle valve



Acc. to DIN 30665, with air regulation, with low flame.

-18%

Type	Height	Weight	PK	Cat. No.	Price	Now
	mm	g			GBP	GBP
Natural	155	260	1	9.018 375	45.44	37.24
Propane	155	260	1	9.018 376	45.44	37.24

Tripod Stand

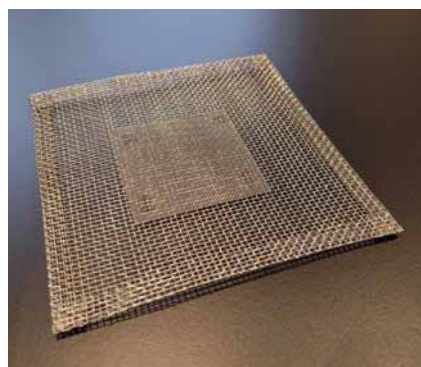


Zinc-plated steel. With a circular top and flared legs.
Zinc plating of tripod stands serves as temporary corrosion protection. May peel off after direct contact with an open burner flame.

-18%

Diam.	Height	PK	Cat. No.	Price	Now
mm	mm			GBP	GBP
100	180	1	9.034 110	11.07	9.08
120	210	1	9.034 112	12.33	10.11
120	250	1	6.200 910	15.75	12.92
120	260	1	6.234 831	16.65	13.65
140	220	1	9.034 114	13.95	11.44
160	230	1	6.059 957	16.29	13.36

Wire gauze, steel, galvanised



- Folded edges
- Fine-meshed, heat-resistant stainless steel centre

-18%

Dimensions (D x W)	PK	Cat. No.	Price	Now
mm			GBP	GBP
155 x 155	1	4.688 237	4.28	3.51
195 x 195	1	4.688 238	5.40	4.43

Electric arc lighter

Lighter for lighting Bunsen and gas burners with an electrically generated arc. Since the lighter does not produce an open flame, it offers more safety than conventional lighters. The protective cover also prevents accidental ignition.

- Safe and easy-to-use
- Works with an electric arc
- LED light indicates when the battery is running low
- Charging via micro-USB cable (included)
- With safety cover and automatic switch-off after 10 seconds



DOSTMANN electronic GmbH



-42%

Description	Dimensions (W x D x H)	PK	Cat. No.	Price	Now
	mm			GBP	GBP
Electric arc lighter	192 x 26 x 19	1	6.492 358	16.01	9.29
Electric arc lighter with flexible neck	219 x 26 x 18	1	6.492 359	14.39	8.35

LLG-Short period timer with alarm



Easy-to-use combination timer and stopwatch, with large display and alarm function from/up to 99 min. and 59 sec. With a magnet for easy fixing. Battery LR 44 inclusive.

Dimensions (Ø x H): 54 x 16.5 mm
Weight: approx.40 g

Type	PK	Cat. No.	Price	Now
LLG-Short period timer with alarm	1	9.260 150	7.52	5.49

-27%

Temperature/Humidity data logger EBI 20-TH1



- Visual Alarm
- Max/min values on display
- Stores 40000 readings, can be read off at any time
- Replaceable battery

Specifications

Measuring range temperature: -30 to +70 °C
Measuring range humidity: 0% to 100% R.H.
Resolution temperature: 0.1 °C
Resolution humidity: 0.1% R.H.
Memory: 40000 samples
Sensor: NTC for temperature/
capacitive for humidity
Measuring period: 1 minute to 24 hours
Power supply: 3V lithium (CR 2450)
IP code: IP 52
Housing: ABS
Dimensions (L x W x H): 69 x 48 x 22 mm

Type	PK	Cat. No.	Price	Now
EBI 20-TH1-Set	1	9.908 074	200.70	158.55

-21%

Digital Thermo-/Hygrometer EXACTO



For monitoring temperature and humidity. With a display of min and max values.

- Permanent display of daily maximum and minimum values with automatic reset after 24 hours.
- Backlighting
- With magnet, stand and mounting hole

Specifications

Temperature range: -20 ... 70 °C
Temperature accuracy: ±1 °C
Temperature resolution: 1 °C
Humidity range: 1 ... 99%
Humidity accuracy: ±3% at 35 ... 75%,
otherwise ±5%
Humidity resolution: 1%
Power supply: 2 x 1.5 V AAA
(not included in scope of supply)
Dimensions (W x D x H): 74 x 26 x 90 mm
Weight: 106 g

Type	PK	Cat. No.	Price	Now
EXACTO	1	4.670 846	14.61	11.10

-24%

Stopwatch, digital



1/100 sec., split time, clock, date with weekday, hourly chime, alarm with snooze function, lanyard.

Measuring range:
Time up to 23 h, 59 min, 59 sec.

Dimensions (W x H x D):
65 x 79 x 21 mm, weight: 50 g.

Incl. 1x 1.5 V LR44 battery, EK-EL.

Type	PK	Cat. No.	Price	Now
Stopwatch	1	9.851 018	8.38	5.78

-31%

Temperature data logger Traceable® Excursion-Trac™, with 1 insertion probe



Temperature data logger for monitoring the temperature in refrigerators and freezers. Transmission of the data recorded in CSV format via a USB port.

- Display of max./min. Temperature and current temperature
- Smart-Alarm™ with visual and acoustic alarm in the event of limit violations
- Large measurement data memory
- Switchable °C/°F
- Storage of up to 10 different alarm messages
- NIST-traceable certificate included

Scope of supply: Temperature data logger with 1 insertion probe, 3 m cable, stand, hook-and-loop strips, magnetic strips, wall mount, batteries, NIST-traceable calibration certificate

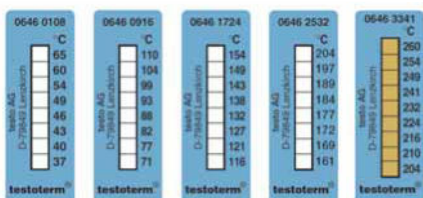
Specifications

Temperature range:	-90 ... 105 °C
Accuracy:	±0.2 °C
Resolution:	0.01 °C
Memory:	525600 measured values
Dimensions probe (WxDxH):	70 x 19 x 108 mm
Dimensions probe (L x Ø):	159 x 3.2 mm
Power supply:	2 x AAA

-16%

Type	PK	Cat. No.	Price	Now
			GBP	GBP
Traceable® Excursion-Trac™ with 1 insertion probe	1	4.687 369	214.23	180.04

8-step irreversible temperature strips testoterm®



Strips for 8 temperatures with 5 types covering the measuring range from 37 to 260 °C. Each strip displays 8 different temperatures. Each strip measures 50 x 18 mm.

-15%

Measuring range °C	PK	Cat. No.	Price	Now
			GBP	GBP
37 ... 65	10	9.246 002	27.90	23.72
71 ... 110	10	9.246 003	27.90	23.72
116 ... 154	10	9.246 004	27.90	23.72
161 ... 204	10	9.246 005	27.90	23.72
204 ... 260	10	9.246 006	27.90	23.72

Laboratory Thermometer TFX 410



Robust and impact-resistant temperature measurement device for Pt 1000 penetration probe (connection Lemo size 0). Conform to HACCP and DIN EN 13485. With battery and factory calibration certificate.

- Probes made of stainless steel, for temperatures up to +400 °C
- Accuracy: exceeds DIN IEC 584, class 1

Specifications:

Measurement range TFX 410:	-50 ... +300 °C
Accuracy:	±0.3 °C
Resolution:	0.1 °C
Sensor:	Pt 1000 (connection Lemo size 0)
Housing material:	ABS
Certificate:	3-point factory calibration
Operating temperature:	-25 °C to +50 °C
Storage temperature:	-30 °C to +70 °C
Dimensions (L x W x H):	54 x 22 x 109 mm (without probe)
Weight:	Approximately 90 g
Power supply:	3.0 V Lithium, replaceable
Battery lifetime:	Approximately 5 years
IP code:	IP 67

-21%

Type	Description	PK	Cat. No.	Price	Now
				GBP	GBP
TFX 410	Laboratory thermometer with assigned probe	1	6.206 350	249.20	196.95
TFX 410-1	Laboratory thermometer (without probe)	1	6.207 171	215.10	169.93
TFX 410-1 + TPX 200	Laboratory thermometer with probe without cable	1	6.205 687	314.10	248.14
TFX 410-1 + TPX 400	Laboratory thermometer with probe with tip and 60 cm cable	1	6.205 686	314.10	248.14
TFX 410-1 + TPX 400-150	Laboratory thermometer with probe with tip and 150 cm cable	1	6.243 018	314.10	248.14

LLG- General-purpose thermometers, red filling



Enclosed-scale type, with eyelet. With uncoated, prismatic measuring capillary. Red spirit filling (except 9.235 265: blue).

-20%

Measuring range °C	Length mm	Diam. mm	PK	Cat. No.	Price	Now
					GBP	GBP
-10/0 ... 50	200	7 ... 8	1	9.235 245	11.35	9.08
-10/0 ... 100	260	7 ... 8	1	9.235 250	11.35	9.08
-10/0 ... 150	260	7 ... 8	1	9.235 255	12.47	9.98
-10/0 ... 200*	300	7 ... 8	1	9.235 260	13.77	11.02
-10/0 ... 250*	300	7 ... 8	1	9.235 265	20.48	16.38

* Note: With these types the colour can fade after extended periods of use at higher temperatures.

Magnetic stirrer with heating LLG-uniSTIRRER 3 pro, complete set

- ! - New Design
- Proven Quality



Universal magnetic stirrer with outstanding price-performance ratio and new, improved design.

- Stainless steel plate with ceramic coating
- Digital speed and temperature control
- LED display
- "HOT" display for hot surfaces, even when the device is switched off
- Fixed safety circuit of the hotplate temperature at 320 °C
- Connection for PT1000 temperature probe, integrated control function. The control accuracy with the temperature sensor is ±0.5 °C.

Scope of supply: Magnetic stirrer, PT1000 temperature probe, rod, holder



Specifications

Max. Stirring volume:	3 l
Speed:	200 ... 1500 rpm
Heating temperature:	RT ... 280 °C
Ø working area:	135 mm
Permissible ambient temperature:	5 ... 40 °C
Dimensions (WxDxH):	220 x 160 x 95 mm
Weight:	1400 g
Power supply:	200 ... 240 V/100 ... 120 V, 50/60 Hz
Protection class (IP):	IP 21



-16%

Type	Plug type	PK	Cat. No.	Price	Now
				GBP	GBP
LLG-uniSTIRRER 3 pro	EU	1	6.263 400	234.95	197.36
LLG-uniSTIRRER 3 pro	UK	1	6.263 401	249.35	209.45

Magnetic stirring bar protest set 1



Magnetic stirring bars protest®, Set 1 in a transparent box with a hinged lid. Consisting of: 2x 20 x 6 mm, 2x 25 x 6mm, 2x 30 x 6 mm, 2x 40 x 8 mm, 1x 50 x 8 mm, 1x 60 x 9 mm

-14%

Description	PK	Cat. No.	Price	Now
			GBP	GBP
MS-Set 1	1	6.267 317	35.37	30.42

Magnetic stirrer TWISTER

- ! - Innovative Concept
- Modular System



Without heating. The TWISTER is a universal and particularly compact mixer with a magnetic drive. The mixing positions can be controlled separately or simultaneously (leader-follower principle).

- Intuitive and chemically resistant 360° LED glass display for conveying all information without an alphanumeric display
- Integrated beaker detection
- Suitable for operation in incubators up to 40 °C

Set 1 Scope of delivery: 1 x TWISTER magnetic stirrer, 1 x plug-in power supply unit with adapter, 1 x IKAFLON 25-round magnetic stirring bar.

Set 2 Scope of delivery: 2 x magnetic stirrers TWISTER, 1 x plug-in power supply unit with adapter, 2 x magnetic stirring bars IKAFLON 25 rounds.

Specifications

Max. stirred volume per position:	5 l
Speed range:	100 ... 3000 rpm
Permissible ambient temperature:	5 ... 40 °C
Permissible relative humidity:	80%
Material Top plate:	Glass
Dimensions Top plate (W x D):	124 x 124 mm
Dimensions (W x D x H):	135 x 135 x 24 mm
Weight:	0.6 kg
Power supply:	100 ... 240 V, 50/60 Hz
IP code:	IP 66

-14%

Type	Stirring capacity	PK	Cat. No.	Price	Now
	I			GBP	GBP
TWISTER Set 1	5	1	4.685 997	377.19	324.31
TWISTER Set 2	10	1	4.685 998	798.39	699.14

Magnetic stirrer MST Digital



Small, lightweight magnetic stirrer for volumes up to 5 l.

- Timer
- Auto reverse function

Specifications

Volume (H ₂ O):	5 l
Speed (max.):	1500 rpm
Display:	Digital
Timer:	1 ... 900 min
Dimensions (W x D x H):	120 x 145 x 50 mm
Power supply:	100 ... 240 V, 50/60 Hz
Warranty:	3 years

-10%

Type	PK	Cat. No.	Price	Now
			GBP	GBP
MST Digital	1	4.666 683	136.89	123.12

Rocking shakers Duomax 1030



- Different Tilt Angles
- Overheating Protection



The Rocking shakers Duomax are suitable for the modular Incubator 1000 and are recommended for applications which require variable temperatures. With 2-dimensional tilting movement, suitable for Petri dishes, culture bottles, Erlenmeyer flasks and all standard vessels.

- 2 models available: Tilt angle to 5° for soft and gentle movements or tilt angle to 10° for a much stronger motion
- An overtemperature sensor preventatively shuts off the unit in a dangerous heat-up situation, particularly valuable for you in case of continuous operation
- Set and continuously adjust the variable speed on the analogue control knob, suitable for all standard vessels

Specifications

Type of movement:	rocking
Tumbling angle:	5° or 10°
Speed range:	2 ... 50 rpm
Max. Load:	5 kg
Timer:	1 ... 120 min
Power consumption:	115 W
Permissible ambient temperature:	5 ... 31 °C
Permissible relative moisture:	80%
Platform dimensions (W x D):	290 x 258 mm
Overall dimensions (W x D x H):	320 x 375 x 185 mm
Weight:	8 kg
Power supply:	230 V, 50/60 Hz
Protection class acc. to DIN EN 60529:	IP 40

-6%

Type	Inclination angle	PK	Cat. No.	Price	Now
	°			GBP	GBP
Duomax 1030	5	1	9.839 855	1,625.40	1,527.88
Duomax 1030	10	1	9.839 856	1,614.60	1,517.72

Shaker VORTEX 2



Vortex shaker especially for short-time operation (Touch function) or continuous operation.

Specifications

Type of movement:	orbital
Orbital diameter:	4 mm
Max. shaken quantity:	400 g
Motor rating input/output:	39/9 W
Speed range:	500 to 2500 rpm
Dimensions (W x H x D):	120 x 138 x 140 mm
Weight:	3.9 kg
Enclosure according to DIN EN 60529:	IP 21

-14%

Type	Plug type	PK	Cat. No.	Price	Now
				GBP	GBP
VORTEX 2	EU	1	7.971 443	263.70	226.78
VORTEX 2	UK	1	6.317 556	263.70	226.78
VORTEX 2	CH	1	6.492 282	263.70	226.78

LLG-Centrifuge Tubes economy, PP



- With additional graduation in the cone base
- Max. rotate speed up to 12000 x g and 6000 x g for self-standing tubes
- Autoclavable at 121 °C
- Freezable to -80 °C
- Pyrogen free
- DNase/RNase-free
- Aseptically, bulk pack



-20%

Capacity	Form	Height	Diam.	PK	Cat. No.	Price	Now
ml		mm	mm			GBP	GBP
15	conical	119.6	17	500	6.270 403	59.99	47.99
50	conical	113.9	30	500	6.270 404	75.25	60.20
50	with rim	116.5	30	500	6.270 405	80.26	64.21

Precision balances Entris® II, LLG Premium Line



SARTORIUS



- LLG Premium Line
- Quality "Made in Germany"
- Very Fast Stabilization and Settling Times
- High Chemical Resistance



The evolution of the Entris® balance series. The large portfolio offers the right model for every weighing task. With many convenient functions for efficiency and accuracy in the laboratory. Quality "Made in Germany".

- Modern sensors ensure very fast stabilisation time
- Automatic, internal calibration and adjustment function (isoCAL) for all "i" models
- A weighing platform made of stainless steel
- Excellent readability and operability with a hybrid touch display

Scope of supply: Precision balance, power supply unit, display protection cover

Specifications

Weighing platform: 182 x 182 mm
 Dimensions (W x D x H): 219 x 317 x 94 mm
 Power supply: 100 ... 240 V, 50 ... 60 Hz

-13%

Type	Capacity	PK	Cat. No.	Price	Now
	g			GBP	GBP
BCE622i-1S	620	1	4.669 160	957.38	832.92
BCE822i-1S	820	1	4.669 184	1,055.39	918.19
BCE2202i-1S	2200	1	4.669 120	1,228.77	1,069.03
BCE3202i-1S	3200	1	4.669 132	1,319.23	1,147.73
BCE4202i-1S	4200	1	4.669 140	1,402.16	1,219.88
BCE6202i-1S	6200	1	4.669 156	1,518.20	1,320.83

LLG-Sample dishes, Aluminium



High-quality aluminium sample dishes for moisture determination.

-20%

Description	Diam.	Height	PK	Cat. No.	Price	Now
	mm	mm			GBP	GBP
Sample dishes	90	7	80	6.282 670	13.95	11.16
Sample dishes	100	7	80	6.265 408	14.24	11.39
Sample dishes with rim	100	7	80	6.281 537	14.24	11.39

Analytical balance Type ACJ



- Single Cell Weighing System
- Short Settling Time
- Stable Temperature Behaviour

The bestseller in analytical balances, now with a high-quality single-cell weighing system.

- With EC type approval, integrated RS-232 and USB data interface
- Automatic internal adjustment in the case of a change in temperature >2 °C or time-controlled every 4 hours
- Dosage aid: High-stability mode and other filter settings can be selected
- Simple recipe weighing and documenting with a combined tare/print function
- Large LCD, digit height 14 mm



A DAkkS calibration with a DAkkS calibration certificate is optionally available and must be specified when ordering the balances.

Specifications

Overall dimensions (W x D x H): 210 x 340 x 325 mm
 Dimensions weighing space (W x D x H): 174 x 162 x 227 mm
 Permissible ambient temperature: 10 °C/30 °C
 Net weight: approx. 6 kg

-26%

Type	Capacity	PK	Cat. No.	Price	Now
	g			GBP	GBP
ACJ 80-4M	82	1	4.680 329	1,233.00	912.42
ACJ 100-4M	120	1	6.316 869	1,287.00	952.38
ACJ 200-4M	220	1	4.680 330	1,377.00	1,018.98
ACJ 300-4M	320	1	6.314 246	1,557.00	1,152.18

Halogen Moisture Analyser DBS 60-3



Modern moisture analyser with 10 memories and graphic display.

- Halogen quartz glass heater 400 W
- Backlit LCD, digit height 15 mm: Previous drying time, current temperature, unit for displaying the results, current moisture content in %, drying mode/Status display drying
- Observation window over the sample, useful during the initial adjustment



Specifications

Readability: 0.01% or 0.001 g
 Weighing range, max: 60 g
 Reproducibility, weight of sample 2 g: 0.15%
 Reproducibility, weight of sample 10 g: 0.02%
 Temperature range: 50 ... 200 °C
 Dimensions (W x D x H): 204 x 336 x 167 mm

-26%

Type	PK	Cat. No.	Price	Now
			GBP	GBP
DBS 60-3	1	9.901 441	1,485.00	1,098.90

Mikrocentrifuge Frontier™ FC5513-K

! With Unbalance Sensor



Compact high-speed microcentrifuge with modern touch-wheel interface. Ideal suited for general laboratory applications.

- Backlit, two-lined LCD
- Powerful brushless induction motor
- 10 acceleration and deceleration rates
- Memory for up to 99 parameters
- Imbalance sensor
- Small footprint

Scope of supply: Centrifuge, angle rotor for 24 x 1.5/2.0 ml tubes

Specifications

Max. RCF:	17317 x g
Max. Speed:	20 ... 13500 rpm
Max. Load:	24 x 1.5/2.0 ml
Timer:	10 s ... 99 h 59 min 59 s, continuous
Power consumption:	170 W
Dimensions (W x D x H):	277 x 356 x 236 mm
Weight:	13.1 kg
Power supply:	230 V, 50/60 Hz

-25%

Type	PK	Cat. No.	Price	Now
FC5513-K	1	6.323 158	1,490.16	1,117.62
			GBP	GBP

LLG-Microcentrifuge tubes, PP



Certified DNase-, RNase- and pyrogen-free. Clear, in bags. Suitable for microbiology. Guaranteed metal-free.

Specifications
Autoclavability

Temperature:	121 °C
Pressure:	1.05 bar or 15 psi
Time:	20 min or less

Centrifugation

Fixed angle rotor:	25000 x g
Swing out rotor:	70000 x g

-20%

Form	Volume	Max.	PK	Cat. No.	Price	Now
	ml	rcf			GBP	GBP
conical	0.5	20000	1000	9.409 023	15.12	12.10
conical	1.5	25000	1000	9.409 024	13.91	11.13
round	2.0	25000	1000	9.409 025	15.96	12.77

Mini centrifuges LLG-uniCFUGE 2 and LLG-uniCFUGE 2/5

! - Proven Quality
- Topseller



LLG-uniCFUGE 2

LLG-uniCFUGE 2/5

Compact and reasonably priced mini centrifuges with two rotor types. Speed can be adjusted to 4000 rpm or 6000 rpm. Powerful motor for fast starting. Quick stop when the lid is opened.

LLG-uniCFUGE 2 with **Universal rotor** for 6 x 1.5/2.0 ml and 6 x 0.5 ml tubes and 2 times 8 x 0.2 ml PCR stripes.

LLG-uniCFUGE 2/5 with **rotor for 4 x 5 ml tubes**.

Scope of supply: Centrifuge, mains cable

Specifications

Max. RCF:	1200 x g and 2000 x g
Max. speed:	4000 rpm and 6000 rpm
Motor:	brushless DC motor
Max. load:	6 x 0.5/1.5/2 ml and 2 x 8-tube PCR strips (0.2 ml) or 4 x 5 ml tubes
Dimensions (diam. x H):	140 x 120 mm
Weight:	0.7 kg
Power supply:	100 ... 240 V, 50/60 Hz
Warranty:	3 years

-20%

Description	Plug type	PK	Cat. No.	Price	Now
				GBP	GBP
LLG-uniCFUGE 2 with universal rotor	EU	1	6.263 510	104.98	83.98
LLG-uniCFUGE 2 with universal rotor	UK	1	6.263 511	100.33	80.26
LLG-uniCFUGE 2/5 with rotor for 5 ml tubes	EU	1	6.263 515	104.98	83.98
LLG-uniCFUGE 2/5 with rotor for 5 ml tubes	UK	1	6.263 516	100.33	80.26

LLG-Centrifuge tubes, 5 ml, PP, with Safe-Lock lid

- Conical shape
- Frosted labelling area on the lid
- Lid membrane can be easily pierced
- Easy opening and closing with one hand
- Graduation lines for visual volume control
- RNase- and DNase-free
- max. RZB: 25000 x g
- Temperature range: -86 ... 121 °C



-25%

Capacity	PK	Cat. No.	Price	Now
			GBP	GBP
5 ml	200	6.322 888	11.42	8.57

LABORTOPS

Mini-Diaphragm vacuum pumps LABOPORT® N96, chemically-resistant



- Topseller
- Compact
- High Flow Rate

The pump combines a high flow rate with a very compact design. Suitable for filtration, SPE, and liquid aspiration using a vacuum. Due to the manual rotational speed control, the pump is quiet, very energy efficient, and can be optimally adjusted following the application.

- Easy-to-clean surface
- Minimised footprint
- Adjustable in flowrate due to manual rotational speed control
- PTFE-coated diaphragm for use with aggressive/corrosive gases and vapours

Specifications

Ultimate vacuum (abs.):	<130 mbar
Operating pressure:	2.5 bar
Connectors for tube:	ID 6 mm
Permissible ambient temperature:	5 ... 40 °C
Pump head:	PPS
Diaphragm:	PTFE coated
Valves:	FKM



Type	Flow rate L / min.	Ultimate vacuum mbar (abs).	Dimensions (W x D x H) mm	Weight kg	PK	Cat. No.	Price GBP	Now GBP
N96	7	130	75 x 156 x 119	1.3	1	4.672 374	421.20	341.17

-19%