

# 2025 Q4 Labortops

Temperature Measurement	2	General Laboratory Supply	18, 22
pH Measurement	3	Waste Disposal	19
Filtration	4	PPE	20
Glassware	5	Cleaning	21
Sampling	6 - 7	Microbiology	23
Analytical Measurement	8 - 9	Centrifugation	24
BOD / COD	10	Ultrapure Water	25
PFAS Analysis	11	Stirring / Shaking / Mixing	26 - 27
Heating / Cooling	12 - 13	Optics	28 - 29
Genomics / Proteomics	14 - 15	Vacuum Technology	30
Liquid Handling	16 - 17	Weighing	31 - 32







### Temperature logger, testo 175-H1





2-channel temperature and humidity data logger with external humidity sensor (NTC/capacitive humidity sensor)

- Professional long-term monitoring of temperature and humidity in work and storage rooms

### Digital hand held thermometer TTX 200



For measuring the core temperature with a fixed probe with a cable and a handle.

- Very large display with large figures
- Factory calibration certificate



#### **Specifications**

Channels: Measurement units: Measuring ranges: Temperature (NTC):

Humidity (capacitive): Dew point:

Operation and storage

temperature:

Battery type: IP code:

Meas. cycle:

Memory:

2 x internal (stump) °C, °F,%r.F.,%RH, °Ctd, g/m³

-20 ... +55 °C

0 ... 100% r.h. -40 ... +50 °Ctd

-20 ... +55 °C

3 x AlMn Type AAA or Energizer

IP 54 10sec - 24h

1 mio. measurement

values

Туре	PK Cat. No.	Price
		GBP
testo 175-H1	1 6.242 911	290.70

#### **Specifications**

Temperature range:

-30 ... +199.9 °C ±0.5 °C (-30 ... +100 °C), Accuracy:

otherwise ±1% Sensor length/diam.: 120 mm/3 mm 600 mm Cable length: -20 .. +60 °C Working temperature:

127 x 60 x 16 mm (without sensor) Dimensions (L x W x H):

Weight: approx. 220 g CR 2032 Power supply: Protection class: IP 55

Туре	PK	Cat. No.	Price
			GBP
TTX 200	1	6.291 272	99.00

## Wireless min./max. alarm thermometer type 13090



- Triple display for current, min./max. temperature, as well as

Scope of supply: Bottle temperature sensor with 1 m cable,



## Combi infrared and insertion thermometer TLC 750i-V2





#### Very simple operation

Handy infrared thermometer for non-contact measurement of surface temperature or core temperature with the foldable insertion probe.

- Practical pocket size for daily use
- Backlit display allows reading in dark environment
- Rotating display makes it easy to read the measured
- Double laser pointer
- HACCP and DIN EN 13485 compliant, incl. calibration certificate
- Waterproof housing (IP 65)

wireless temperature sensor (transmitter)

- Adjustable Hi/Low alarm

freezers for quality assurance.

Temperature range (internal): Temperature range (external, wireless): Temperature range (external, cable):

indoor/outdoor and wireless temperature

Resolution: Wireless distance: 0 ... 50 °C -40 ... 50 °C

-50 ... 70 °C 0.1 °C

50 m (open field), 10 m (refrigerator)

PK Cat. No. Price Туре GBP 1 6.325 021 13090 64.47 Temparature infrared: -50 ... 250 °C Resolution infrared: 0.1 °C

±0.5 °C (-30 ... 99 °C) Accuracy sensor: Accuracy infrared: ±1.0 °C (0 ... 65 °C)

Туре	PK Cat. No.	Price
		GBP
TLC 750i-V2	1 6.491 695	114.91

### Multiparameter meters MultiLab® Pro IDS



- 2- or 4-channel device
- No electrode change necessary
- 7" touch screen
- Suitable for IDS electrodes

Digital multiparameter meter with up to 4 galvanically isolated measuring channels for pH, ORP, mV, conductivity, oxygen, ISE and turbidity measurements. This allows up to 4 identical or different parameters to be measured simultaneously. Ideal for demanding tasks, even in critical (GxP) areas. The brilliant 7" touch display with special touchscreen glass is resistant to alcohol and disinfectants and can be operated with gloves. Predefined methods, automated documentation, metadata backup and onboard manual simplify handling and optimise the workflow.

- Wireless-ready for Intelligent Digital Sensors (IDS) modules
- Digital sensor recognition
- Wired or wireless sensor connection possible
- Preset and definable buffer sets
- QSC calibration
- AutoRead function
- LIMS ready: easy integration into existing LIMS systems
- Stored metadata is securely transferred via the LAN network
- Data export also as PDF/A, JSON and csv
- Interfaces: 2 x USB-A and 1 x Ethernet
- GxP-compliant



#### Scope of supply:

MultiLab® Pro 20 IDS S2: Multiparameter meter with 2 measuring channels, pH electrode SenTix® 980, digital conductivity measuring cell TetraCon® 925, pH buffers STP 4, STP 7 and STP 10 Trace, 3 mol KCl solution, conductivity standard 1413 μS/cm, stand, universal power supply

MultiLab® Pro 40 IDS S4: Multiparameter meter with 4 measuring channels, pH electrode SenTix® 980, ORP electrode SenTix® ORP-T 900, digital conductivity measuring cell TetraCon® 925, digital oxygen sensor FDO® 925, pH buffers STP 4, STP 7 and STP 10 Trace, 3 mol KCl solution, conductivity standard 1413 µS/cm, stand, universal power supply

Type	Channels	PK	Cat. No.	Price
				GBP
14 U.U. 1 - B				
MultiLab® Pro 20 IDS S2	2	1	4.712 712	3,197.70
Multil ah® Pro 40 IDS S4	Δ	1	4 712 715	5 204 70
MultiLab® Pro 40 IDS S4	4	1	4.712 715	5,204.70

## pH buffer solutions at 20 °C/25 °C, certified reference material (CRM)





Certified reference material according to ISO 17034. The pH buffer solutions are colour-coded, and the uncertainty of measurement of  $\pm 0.01$  pH was tested at 20 °C/25 °C. Supplied with a detailed certification report which includes traceability to NIST.

pH- value	Colour	Capacity	PK	Cat. No.	Price
		ml			GBP
4.00 at 20 °C	red	500	1	4.695 385	30.78
7.00 at 20 °C	yellow	500	1	4.695 386	30.78
10.00 at 20 °C	colourless	500	1	6.493 481	40.29
4.00 at 25 °C	red	500	1	4.695 403	31.76
7.00 at 25 °C	yellow	500	1	4.695 404	31.76
10.00 at 25 °C	colourless	500	1	6.493 482	40.29

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





Flip-top vial is easy to open and close with one hand. The new LLG pH strips offer the utmost in 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.

Range	Package contents	PK	Cat. No.	Price
pН				GBP
0 14	100 strips per vial with snap lid	100	9.129 808	11.35

## LLG filter papers for qualitative analyses





#### **Medium fast**

- Made from 100% cellulose
- Filtration speed according to DIN 53137

Diam.	Filtration time	Pore size	PK Cat. No. Price
mm	secs.	μm	GBP
70	88	5 - 13	100 9.045 803 <b>3.74</b>
90	88	5 - 13	100 9.045 804 <b>4.22</b>
110	88	5 - 13	100 9.045 805 <b>4.70</b>
125	88	5 - 13	100 9.045 806 <b>4.92</b>
150	88	5 - 13	100 9.045 807 <b>6.16</b>
185	88	5 - 13	100 9.045 808 <b>7.71</b>
240	88	5 - 13	100 9.045 809 <b>10.29</b>

## Syringeless filters SEPARA





- Quick and easy to use
- Low sample loss



SEPARA integrates in one single device auto-sampler vial, filtration membrane, plunger, and cap/septa. The single step filtering process is efficient and saves time. PP vial with Ø 12 x 33 mm, Filtering capacity 0.48 ml, dead volume <30  $\mu$ l, maximum operating temperature 50 °C

Membrane	Pore size	Colour	PK	Cat. No.	Price
	μm				GBP
Nylon	0.22	light blue	100	6.287 339	120.33
PTFE	0.22	pink	100	6.287 340	120.33
Regen. Cellulose	0.22	grey	100	6.287 341	120.33
PVDF	0.22	yellow	100	6.287 342	120.33
PES	0.22	light green	100	6.287 343	120.33
Nylon	0.45	blue	100	6.287 344	120.33
PTFE	0.45	red	100	6.287 345	120.33
Regen. Cellulose	0.45	black	100	6.287 346	120.33
PVDF	0.45	orange	100	6.287 347	120.33
PES	0.45	green	100	6.287 348	120.33

## Qualitative Filters for beer analysis





Suitable for analytical methods in breweries to filter and analyse, based upon recommended procedures of the EBC (European Brewery Convention).

- Medium fast
- Grained surface

#### Further sizes on request.

Туре	Diam.	Filtration time acc. to Herzberg	PK	Cat. No.	Price
	mm	S			GBP
Folded filter	185	110	100	4.006 207	37.80
Folded filter	240	110	100	4.006 208	42.84
Folded filter	320	110	100	4.006 209	48.60

## Funnels, DURAN®



DIN ISO 4798. With short stem. Glass Type I/neutral glass as per USP, EP and JP. Autoclavable.

Diam.	For filter paper	Height	DIN	PK	Cat. No.	Price
mm	diam. mm	mm				GBP
35	45 - 55	60	4798	1	9.251 123	11.62
45	55 - 70	80		1	9.251 128	12.04
55	70 - 90	95	4798	1	9.251 133	17.71
70	110 - 125	125		1	9.251 138	17.50
80	125 - 150	140		1	9.251 141	18.52
100	150 - 185	180	4798	1	9.251 146	20.15
120	185 - 240	210		1	9.251 023	25.10
150	240 - 270	265	4798	1	9.251 157	36.67

## Separating funnels, Squibb-pattern, borosilicate glass 3.3





Supplied with a PTFE stopcock. With a PE conical stopper.

- ISO 4800
- NS necks according to DIN 12242 standard

		_		B1/		
Description	Capacity	Bore	NS	PK	Cat. No.	Price
	ml	mm				GBP
	1111					GDI
Graduated	50	2.5	19/26	1	6.236 317	45.90
Graduated	100	2.5	19/26	1	6.236 318	47.07
			-,	-		
Graduated	250	4.0	29/32	1	6.236 319	53.19
Graduated	500	4.0	29/32	1	6.236 320	58.05
Graduated	1000	6.0	29/32	1	6.236 321	89.10
Graduated	2000	6.0	29/32	1	6.240 412	125.37
			-,-			

## Stand for separating funnel, PP





Suitable to hold all types of laboratory funnels and also separatory funnels with diameter from 60 up to 150 mm. Two tapered wedges are provided to ensure firm grip.

Description	PK Cat. No.	Price
		GBP
Separating funnel holder	1 4.672 109	12.87

# Disposable culture tubes, soda-lime glass, with screw cap





From Soda-lime glass. With DIN thread and PP screw cap  $\,$ 

Capacity	Outer diam.	Height	Wall thickness	DIN-Thread	PK	Cat. No.	Price
ml	mm	mm	mm	GL			GBP
6	12	100	1	14	100	7.021 547	50.99
12	16	100	1	18	100	7.021 548	54.64
22	16	160	1	18	100	7.021 549	67.18
32	18	180	1	18	100	7.021 550	78.37

## LLG-Standing flasks with standard ground joint, borosilicate glass 3.3



With a flat bottom and standard ground joint. White graduation and inscription. Acc. to DIN EN ISO 4797.

Nominal capacity	Dimensions (dia. x H)	Ground size	PK	Cat. No.	Price
ml	mm	NS			GBP
50	51 x 85	29/32	2	4.686 119	8.10
100	64 x 103	14/23	2	4.686 120	9.72
100	64 x 103	29/32	2	4.686 121	9.72
250	85 x 130	29/32	2	4.686 122	11.20
500	105 x 160	29/32	2	4.686 123	15.01
1000	131 x 187	29/32	1	4.686 124	10.95
2000	166 x 230	29/32	1	4.686 125	18.43

## Petri dishes, DUROPLAN®, borosilicate glass 3.3





With lid. DURAN®. Made of DURAN® borosilicate glass 3.3. The base and lid are completely flat on both the outside and inside, free of bubbles and cords. The glass is type 1/neutral glass, as specified by USP/EP, and JP. Autoclavable. DIN 13132.

Ext. diam.	Height	PK Cat. No.	Price
mm	mm		GBP
60	20	1 9.170 141	13.76
80	20	1 9.170 143	14.16
100	15	1 9.170 146	14.95
100	20	1 9.170 148	14.77
120	20	1 9.170 151	15.89
150	30	1 9.170 153	24.59



## Sampler Tubes, V4A stainless steel





Sampler for free flowing, bulk goods up to approx. 1cm diameter.

- also for coarse-grained bulk goods corresponds to ISTA standard for seed lengths of 10 mm and 5 mm

Diam.	Length	PK Cat. No.	Price
mm	cm		GBP
40	40	1 6.200 394	122.27
40	80	1 6.204 492	159.30

## Chemistry scoop, PP, with rod handle



For aggressive liquids, complete with strong handle made of polypropylene.

Capacity	Stem diam.	Stem	PK Cat. No.	Price
ml	mm	mm		GBP
250	20	1000	1 9.303 840	64.89
600	20	1000	1 9.303 842	67.23
1000	20	1000	1 9.303 844	68.90

## Disposable spatulas LaboPlast®/SteriPlast®, PS



The sample spatula is ideal for sampling powders, granulates and pastes.

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



## Disposable samplers for solids, **HDPE**





For contamination-free samples. They are cleanroom-manufactured and individually packed. Gamma-sterilised versions are also available.

For direct removal and filling of free-flowing powders and small-grain granulates.

Type	Description	Length	PK	Cat. No.	Price
71.		. 5			
		mm			GBP
DispoLance	sterile	300	20	6.282 459	121.05
			20	6 202 450	
DispoLance	non-sterne	300	20	6.282 458	103.59
DispoLance	sterile	500	20	6.282 461	142.74
DispoLance	non-sterile	500	20	6.282 460	124.83

## Sampling Dippers DispoLadle, HDPE





The scaled scoop with embossing can be used for measuring. It shows contents in increments of 10 ml, up to 200 ml.

- Cleanroom manufacturedIndividually packaged
- Optionally sterilised by gamma rays

Description	Capacity	Length	PK	Cat. No.	Price
	ml	mm			GBP
Standard	200	500	20	6.284 537	102.56
Sterile	200	500	20	6.284 538	133.70
Standard	200	1000	20	6.284 539	125.37
Sterile	200	1000	20	6.284 540	178.20

## LLG-Transport tubes, PP, with screw cap







For convenient storage and dispatch of samples.

- Conical bottom
- Free standing
- Printed graduation
- 1 1/4 turn thread design for super fast screwing

Capacity	Outer diam.	Height with cap	PK Cat. No.	Price
ml	mm	mm		GBP
5	16	60	100 6.265 667	11.88
10	16	80	100 6.265 668	11.88

## Sample bags Whirl-Pak®, PE, sterile





Whirl-Pak® bags are sterile polyethylene laboratory sample bags used to transport samples for biological testing and other applications. Available with or without write-on label. With integrated wire closing system. Temperature range: -210 to 82 °C.

Nominal capacity	Dimensions (D x W)	Description	PK	Cat. No.	Price
ml	mm				GBP
58	75 x 125	with write-on label	500	7.058 005	104.40
118	75 x 185	with write-on label	500	7.077 212	106.20
532	115 x 230	with write-on label	500	7.058 120	152.10
710	150 x 230	with write-on label	500	6.242 083	200.70
2721	254 x 380	with write-on label	250	6.266 304	296.10
3637	254 x 508	with write-on label	250	6.266 305	355.50
5441	380 x 508	with write-on label	100	6.257 989	225.90
58	75 x 125	with write-on label	500	6.091 055	98.10
118	75 x 185	without write-on label	500	9.404 234	104.40
207	95 x 180	without write-on label	500	7.981 345	130.50
532	115 x 230	without write-on label	500	9.404 235	143.10
710	150 x 230	without write-on label	500	6.228 639	185.40
1065	125 x 380	without write-on label	500	9.404 236	227.70
1242	150 x 380	without write-on label	500	6.266 302	267.30
2041	190 x 380	without write-on label	500	6.305 117	305.10

## LLG-Sample containers, with screw cap, PP







White, with screwed-on lid. For storage or transport of samples.

Nominal capacity	Ø with Cover	Height	PK	Cat. No.	Price
ml	mm	mm			GBP
30	58	19	10	9.402 310	8.79
75	58	47	10	9.402 313	10.71
310	81	81	10	9.402 318	12.83
600	119	67	10	9.402 321	21.27
1250	119	130	5	9.402 324	15.34

### Water sample bottles, PET



With and without sodium thiosulfate





- Sterile
- Leak-proof
- Thick walls
- Crush-resistant corners

Nominal capacity	Description	PK	Cat. No.	Price
ml				GBP
125	without sodium thiosulphate	180	4.712 663	261.95
250	without sodium thiosulphate	108	4.712 664	195.35
500	without sodium thiosulphate	84	4.712 665	183.37
1000	without sodium thiosulphate	30	4.712 666	97.92
125	without sodium thiosulphate *	130	4.712 667	237.83
250	without sodium thiosulphate *	72	4.712 668	167.65
500	without sodium thiosulphate *	42	4.712 669	131.85
1000	without sodium thiosulphate *	22	4.712 670	100.17
125	with sodium thiosulphate	180	4.712 671	261.95
250	with sodium thiosulphate	108	4.712 672	193.10
500	with sodium thiosulphate	84	4.712 673	181.62
1000	with sodium thiosulphate	30	4.712 674	97.30
125	with sodium thiosulphate *	130	4.712 675	229.73
250	with sodium thiosulphate *	72	4.712 676	155.67
500	with sodium thiosulphate *	42	4.712 677	115.26
1000	with sodium thiosulphate *	22	4.712 678	91.02
* Individua	ally nacked			

## Melting point apparatus, model MP-200D/MP-200D-HR



## Melting point tubes for MP series





- Antimicrobial coating
- Up to 300 °C



Туре	PK	Cat. No.	Price
			GBP
Melting point determination tubes (open on both sides)	100	6.236 492	23.43
Melting point determination tubes (closed at one end)	100	6.803 067	23.43
Melting point determination tubes (closed at both ends)	100	9.950 400	42.05

## Pycnometers, Borosilicate glass 3.3, calibrated





Supplied with 100 melting point tubes, open one end.

#### MP-200D // MP-200D-HR **Specification**

Number of samples:

Display hold facility:

Temperature range: Ambient to 300 °C

±1.0 °C at 20 °C, ±2.5 °C at 300 °C Temperature accuracy: Display: Three digit LED  $/\!/$  Four digit LED

Display resolution: 1 °C // 0.1 °C

No // Yes

20 °C per minute to plateau, Ramp rates:

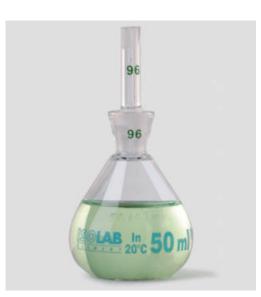
2 °C per minute to melt // 20 °C per minute to plateau, variable between 1 and 10 °C

per minute to melt

Dimensions ( $w \times d \times h$ ): 160 x 220 x 170 mm

Net weight: 1.8 kg

Electrical supply: 230 V, 50 Hz, 75 W



ISO 3507. Individually calibrated to contain (In) to 0.001 ml. Net volume capacity is engraved on the body. Each bottle is calibrated together with its stopper. In order to differentiate easily, both the body and the stopper have the same code numbers printed on them.

Туре	PK	Cat. No.	Price
			GBP
MP-200D	1	9.950 177	823.50
MP-200D-HR	1	9.830 430	1,359.49

Capacity	PK	Cat. No.	Price
ml			GBP
5	1	4.008 327	21.24
10	1	6.241 602	21.60
25	1	4.008 328	22.41
50	1	6.241 603	25.56
100	1	4.008 329	33.75

### Flame Photometer FF-200D-I and FF-200D-R







Single channel, low temperature flame photometer for use in industry, medicine and education. Can be operated with propane, butane, natural gas or liquid gas (LPG). With built-in electronic flame failure safety system for operational safety.

- Model FF-200D-I incl. Na, K, Ca, Ba and Li filters
- Model FF-200D-R incl. Na, K and Li filters
- 3 year warranty

Supplied with: Na, K, Li filters (model PFP7/C), additionally Ba and Ca filter (model PFP7), connecting hoses and clips, compressor plug, drain trap, fuses and operating/service instructions

#### **Specifications**

0 ... 199.9 ppm Range PFP7:

Range PFP7/C: 120 ... 160 ppm Na, 0 ... 10 ppm K

**Limits of detection** 

Na/K: < 0.2 ppm < 0.25 ppm Li: Ca: < 15 ppm Ba: < 30 ppm

Reproducibility: < 1% (Coefficient of variation for 20

consecutive samples using 10 ppm Na set

to a reading of 50)

< 2% (when concentration of 3 ppm Na/K Linearity:

and 5 ppm Li are set to a reading

of 100)

Specificity: Interference from Na, K and Li equal in

concentration to test element will be

Nominal 1.00 V for a reading of 100.0  $\,$ Recorder output:

6 l/min at 1 Kg/cm<sup>2</sup> /14psi

(oil and moisture free pressurised air) Dimensions (W  $\times$  D  $\times$  H): 420 x 360 x 300 mm

Power supply: 190 ... 250 V, 50/60 Hz

Type	PK	Cat. No.	Price
			GBP
FF-200D-I	1	9.309 409	4,282.20
FF-200D-R	1	6.272 846	5,380.20

### Laboratory refractometers Abbemat Essential





- Peltier temperature control
- Preset refractive index and Brix scale



The Abbemat Essential line is budget-friendly with the best build quality and temperature control. All three instruments are suitable for liquids, viscous or solid substances, as well as turbid and dark substances. Fast concentration measurements due to a simplified user interface and predefined methods.

- Precise Peltier temperature control
- Up to 10 methods: refractive index and Brix preset, plus 8 optional methods
- Intuitive 7" Hybrid touchscreen
- Sapphire prism backed by a 25-year warranty

Туре	Measuring range	Accuracy	PK	Cat. No.	Price
					GBP
Abbemat 3001	1,33 1,55 nD 0 100 °Brix	±0,0001 nD ±0,05 °Brix	1	4.713 222	3,622.50
Abbemat 3101	1,30 1,66 nD 0 100 °Brix	±0,00004 nD ±0,03 °Brix	1	4.713 223	5,697.00
Abbemat 3201	1,26 1,72 nD 0 100 °Brix	±0,00002 nD ±0,015 °Brix	1	4.713 224	8,280.00

## Standards for Flame photometers





Suitable for calibration, control, IQ/OQ and method validation. Compatible with all Flame Photometry Instruments. NIST traceable. HDPE bottles of 500 ml.

Туре	Measuring range	PK	Cat. No.	Price
				GBP
Sodium / Potassium	100 / 100 mmol/L	1	4.012 215	107.14
Sodium / Potassium	120 / 2 mmol/L	1	4.012 216	107.14
Sodium / Potassium	140 / 5 mmol/L	1	4.012 217	107.14
Sodium / Potassium	160 / 8 mmol/L	1	4.012 218	107.14
Sodium / Potassium	160 / 80 mmol/L	1	4.012 219	107.14
Rinse solution	-	1	6.286 180	41.08

### BOD sensor system





Measuring systems for the reliable determination of 90 to 999 ppm BOD. Complete with sensor heads and multi-position magnetic stirrer.

- The sensor heads are screwed directly onto the BOD bottles
- Automatic storage of 5 results in 24-hour intervals
- Measured readings in mg/l (ppm) can be read directly on the sensor at any time  $\,$
- Protected against splashing water (IP 54)

**Scope of supply BOD sensor system 6:** 6-position magnetic stirrer, each 6 BOD sensors incl. batteries, 500 ml brown glass bottles, KOH reservoirs and magnetic stirring rods

**Scope of supply BOD sensor system 10:** 10-position magnetic stirrer, each 10 BOD sensors incl. batteries, 500 ml brown glass bottles, KOH reservoirs and magnetic stirring rods

#### **Specifications**

BOD range: 90 ... 999 ppm Display: LED (3 digits) IP code: IP 54

Туре	Description	PK	Cat. No.	Price
				GBP
BOD sensor system 6	6 positions	1	6.317 212	1,444.50
BOD sensor system 10	10 positions	1	6.317 213	2,216.70
BOD sensor set	500 ml brown glass bottle with BOD sensor, KOH reservoir, stirring rod	1	4.666 791	213.30
BOD sensor	Single sensor	1	4.666 790	206.10

## Dissolved oxygen bottles according to Winkler, soda lime glass



For the determination of dissolved oxygen in water. The measured capacity is specified to  $\pm 0.01$  ml. With a white labelling area. Each bottle and its stopper is marked with a unique, matching identification number.

Nominal capacity	NS	Snap-on clip	PK	Cat. No.	Price
ml					GBP
100 to 150	14/23	9.304 050	1	9.304 038	20.39
250 to 300	19/26	9.304 051	1	9.304 048	22.79

## Clamps for oxygen determination bottles acc. to Winkler





Stainless steel, nickel-plated. For securing the NS stopper.

For bottles	For	PK	Cat. No.	Price
ml				GBP
100 150	NS 14/23	1	4.684 046	6.38
250 300	NS 19/26	1	4.684 047	6.54

### HCL-Absorber, for COD determination





The glass filter devices are made of borosilicate glass 3.3 and can withstand acids, alkalis and solvents and even temperatures of up to 540 °C.

Ground size	PK Cat. No.	Price
NS		GBP
29/32	1 6.225 057	88.92



## For PFAS analysis

## LLG-Short thread vials ND9, PP

The LLG-Short thread vials are suitable for PFAS analyses. Free from polyhaloolefins.





Capacity	o.d. x Height	PK Cat. No. Pric	e
ml	mm	GB	Р
0.3	11.6 x 32	100 4.008 262 <b>13.6</b>	8
0.7	11.6 x 32	100 4.712 515 <b>13.6</b>	8
1.5	11.6 x 32	100 4.712 514 <b>14.5</b> .	3

## b.safe caps, GL45, PP/PPS, PFAS Analytic

b.safe

Screw caps, with freely movable insert made of PP. Free from polyhaloolefins. 3 capillary connections (3.2 mm).

- Insert made of PP
- Fittings made of PE
- Ideal for PFAS analysis

Scope of supply: Cap, 2xfittings (PE), 3xblind fittings (PE), air valve with service life indicator



Capillary connections: GL 45 Neck thread:

Туре	PK Cat. No.	Price
		GBP
b.safe-Cap	1 4.694 468	103.36

## Air valves, PP, PFAS Analytic

The integrated non-return valve avoids evaporation of solvents and lets flow ambient air into the bottle in case of vacuum.

- Free from polyhaloolefins



b.safe

Price	Cat. No.	PK	Life	Thread
			time	
GBP				
38.98	4.694 467	2	6 months	UNF 1/4" 28G

## LLG-Short thread seals ND9, PP, ready assembled

The LLG-Short thread seals are suitable for PFAS analyses.

- Cap made of PP
- Septa made of PP, silicone or polyimide
- Free from polyhaloolefins



Caps	Septa	PK	Cat. No.	Price
				GBP
blue, with hole	Silicone white/PP transparent	100	4.712 516	19.66
blue, with hole	Silicone white/PP transparent, slitted	100	4.712 517	21.36
transparent, with hole	Silicone white/PP transparent	100	4.712 518	19.66
transparent, with hole	Silicone white/PP transparent, slitted	100	4.712 519	21.36
blue, with hole	Silicone white/Polyimide orange	100	4.712 520	23.07

## SPE columns, CHROMABOND PFAS





Special phase for SPE analysis. For enrichment of PFAS from water, textiles and sediments (contaminated soils). Polymeric combination phase with weak anion exchanger, highly porous, spherical particles.

Capacity	Filling quantity	Package	PK	Cat. No.	Price
ml	mg				GBP
3	120	30 Piece	30	4.712 701	162.90
3	120	250 Piece	250	4.712 702	1,089.00
6	300	30 Piece	250	4.712 703	1,759.50
6	300	250 Piece	30	6.320 451	252.00

## EC analytical HPLC columns, NUCLEODUR PFAS/PFAS Delay





Hydrophobic reversed phase with distinct polar selectivity for special PFAS analysis. Suitable for high sensitivity LC/MS analysis. NUCLEODUR PFAS Delay columns trap and therefore delay systemrelated PFAS contaminants, ensuring trace-level analysis of PFAS in your samples. Suitable for high sensitivity LC/MS analysis.

Туре	Particle size	Length	Int. diam.	PK	Cat. No.	Price
	μm	mm	mm			GBP
PFAS	3	100	2	1	4.712 704	751.50
PFAS Delay	5	50	2	1	4.712 705	540.00

#### Universal Ovens UN





#### **Specifications**

Type designation:

Working temperature

range:

Setting temperature range:

Setting accuracy: Power supply:

N = Natural convection

at least 5 °C above ambient to +300 °C

+20 to +300 °C

up to 99.9 °C: 0.1 °C/from 100 °C: 0.5 °C

230 V, 50/60 Hz

Туре	Nom. capacity	Max. grids	Included grids	Internal dimensions (W x D x H)	External dimensions (W x D x H)	Rated capacity	Net weight	PK	Cat. No.	Price
	L			mm	mm	kW	kg			GBP
UN30	32	3	1	400 x 250* x 320	585 x 434** x 704	1.6	45	1	9.869 681	1,153.80
UN55	53	4	1	400 x 330* x 400	585 x 514** x 784	2.0	57	1	9.869 682	1,337.40
UN75	74	6	2	400 x 330* x 560	585 x 514** x 944	2.5	66	1	9.869 683	1,629.90
UN110	108	5	2	560 x 400* x 480	745 x 584** x 864	2.8	74	1	9.869 684	1,892,70

<sup>\*</sup> Less 39 mm for fan

#### Cooled incubators FOC series

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

- 2 internal sockets for further devices
- Wireless (WIFI) and wired connectivity
- Front 3 button panel (Set, "+", "-")
- Forced ventilation for uniform temperature distribution

Model FOC 200E: With internal transparent door

Scope of supply: Cooled incubator, shelves





#### Specifications

Temperature range:  $3 \dots 50 \text{ °C}$ Temperature accuracy:  $\pm 0.5 \text{ °C}$ Display: 3-digit LCDInterface: Wi-Fi,  $2 \times RS485$ Power supply: 230 V, 50/60 Hz



## Metal-cased heating mantles series KM-ME, with controller

## **ISOHEAT®**

LabHEAT® - Heating mantles for flasks, round bottom. Flexible glass yarn heating element in plastic plastic-coated, chemical-resistant metal housing. Max. heating element temperature 450 °C; 1.5 m power supply (earthed) cable and RCD (residual current detection); nominal voltage 230 V AC.



Capacity	Flask diam.	Rating	Heating zones	PK	Cat. No.	Price
ml	mm	W				GBP
100	64	100	1	1	9.642 521	297.00
250	85	150	2	1	9.642 522	301.50
500	105	200	2	1	9.642 523	313.20
1000	131	300	2	1	9.642 524	332.10
2000	166	500	2	1	9.642 525	378.00
3000	185	600	2	1	9.642 526	412.20
4000	207	750	2	1	9.642 527	522.90
5000	223	860	2	1	9.642 528	569.70
6000	236	1000	2	1	9.642 529	643.50
10000	279	1400	2	1	9.642 530	862.20
20000	345	2000	2	1	9.642 531	1,188.00

<sup>\*\*</sup>Depth without door handle, please add 56 mm

## Recirculating cooler VALEGRO



- Julabo
- Natural refrigerant
- Illuminated filling level indicator
- OLED touch display





The modern, user-friendly recirculating cooler is characterised by its compact design and precise temperature control:

- Natural refrigerant R290
- OLED touch display
- Continuously adjustable pump
- Timer
- Illuminated, easy-to-clean level indicator
- With casters
- Bath volume 1.5 to 3 liters Temperature: -20 ... 40 °C Temperature stability: ±0.3 °C
- Power supply: 200 ... 230 V, 50/60 Hz
- Weight: 26 kg
- Version with Ethernet interface available as an option

## High-performance freezers TSX Series, up to -35 °C



## thermo

- Low noise level
- Natural refrigerant
- Audible and visual alarm



- With auto defrost

- Whisper-quiet with a noise level of just 52 dB(A)
- Natural refrigerant (R290)
- Acoustic and visual alarmSelf-closing door with 90° hinge

#### Specifications

-35 ... -15 °C Temperature range: Power supply: 230 V, 50 Hz

Туре	Capacity	External dimensions (W x D x H)	PK	Cat. No.	Price
	I	mm			GBP
TSX 1230 FV	326	619 x 790 x 1854	1	4.671 810	5,985.00
TSX 2330 FV	650	711 x 962 x 1994	1	4.672 628	7,308.00
TSX 3030 FV	827	864 x 962 x 1994	1	6.312 076	7,956.00

## Deep freeze labels Cryo-Babies®/Cryo-Tags®



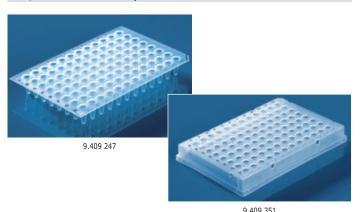
Temperature resistant from -196 °C to 150 °C. All labels withstand freezer temperatures down to -196 °C (liquid and vapour phase nitrogen), boiling water baths, autoclaving and moderate ovens (150 °C). Resist most organic solvents and caustic agents.

Туре	Dimensions (W x D)	For vessels	PK	Cat. No.	Price
	mm				GBP
Cryo-Babies®	24 x 13	0.5ml tubes	1000	9.100 030	65.54
Cryo-Babies®	33 x 13	1.5/2.0ml tubes	1000	9.100 031	65.54
Cryo-Tags®	38 x 13	General application	1000	9.100 032	65.54

Туре	Flow rate	PK	Cat. No.	Price
	I / min.			GBP
VALEGRO 350	16	1	6.522 810	3,312.00
VALEGRO 500	19	1	6.522 811	3,573.00



## 96 well PCR-Plates, PP, for PCR or qPCR



The ultra-thin-walled PCR plate design facilitates constant, rapid and precise heat transfer. With blue alphanumeric code and cut corner for easy orientation, or as indicated.

#### 96-well, non-skirted

PP. 0.2 ml wells. 96-well non-skirted PCR plates are suitable for most commercially available thermocyclers.

#### 96-well, semi-skirted

 $\mbox{PP.}\ 0.2$  ml wells. 96-well semi-skirted PCR plates can easily be labelled or tagged with a barcode.

#### 96-well, skirted

PP. 0.2 ml wells. 96-well skirted PCR plates are especially rigid and are optimally suited for use with automatic pipetting systems and for being transported.

Description	Volume	Cut corner	PK	Cat. No.	Price
	ml				GBP
Low Profile, non-skirted	0.15	H12	50	9.409 247	165.74
Low Profile, semi skirted	0.15	A12	50	9.409 256	165.74
Low Profile, fully skirted*	0.15	H1	50	9.409 351	280.67
Standard profile, non-skirted	0.20	A12	50	9.409 254	165.74
Standard profile, semi skirted	0.20	A12	50	9.409 264	165.74
Standard profile, non-skirted, elevated rim	0.20	H12	50	9.409 381	175.95

<sup>\*</sup>Black alphanumeric code, no additional markings on the cut corner.

## Single PCR tubes with attached caps, PP





0.2 ml and 0.5 ml PCR tubes with attached caps are compatible with leading thermocyclers with heated lids.

Capacity	Description	Colour	PK	Cat. No.	Price
ml					GBP
0.2	domed cap	clear	1000	9.409 370	65.66
0.2	flat cap	clear	1000	9.409 371	54.05
0.5	flat cap	clear	1000	9.409 372	49.59

## Sealing Films, Self-adhesive, Polyester



In case the microplates, PCR-plates, and deep well plates need to be not only covered but also securely sealed, self-adhesive sealing films are the ideal solution.

Description	Application	PK	Cat. No.	Price
				GBP
single film	ELISA, PCR	100	9.409 386	119.07
single film, highly transparent	ELISA, Real Time PCR	100	4.000 237	172.40

## Strips of 8-/12- PCR tubes plus detached cap strips, PP





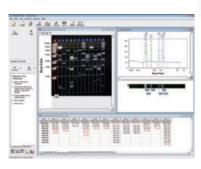
The lids of the 8-strip strips can be opened and closed easily without tools. The vessels have a retaining tab at one end, and the lid strips have a small tab on the side of each lid for careful, contamination-free opening. Made of high-quality polypropylene, RNase-, DNase-, and DNA-free.

Capacity	Description	Colour	PK	Cat. No.	Price
ml					GBP
0.2	Strips of 8 PCR tubes, without caps	clear	125	9.409 374	86.94
0.2	Strips of 8 PCR tubes, with separate flat caps	clear	250	4.007 894	221.63
0.2	Strips of 8 PCR tubes, with separate domed caps	clear	250	4.007 895	208.13

## Gel documentation system microDOC with UV-Transilluminator



- Powerful camera
- Compact device





Cleaver

Recently upgraded with a new 24.1 megapixel digital CMOS camera to guarantee superb resolution, the microDOC is the researcher's choice for a simple, ultra-compact gel documentation system that meets constraints in both budget and space within the laboratory. A large 8" TFT screen enables images, including agarose and fluorescent gels, colorimetric gels, autoradiography film and blotting membrane, to be captured clearly and easily. The system is computer-free and supplied with an 8 GB storage card and 58 mm ethidium bromide filter as standard. Files are saved onto the storage card in RAW, TIFF-RGB and JPEG formats.

**microDOC BASIC:** The microDOC BASIC is a simple, low-cost system comprising a lift-off dark room hood and 24.1 megapixel digital camera, through which the gel is viewed directly.

TotalLab™ 1D software: Its main functions include: lane creation, background subtraction, band detection, profile deconvolution, and molecular size, pI and quantity calibration. More sophisticated standalone software options are available for 1D applications that require band matching, array, colony counting and image ToolBox functionalities.

#### Camera:

- File Format Design rule for Camera File system, DPOF (version 1.1) compliant
- Focus-Area Selection AF mode and manual focus are available
- Hood
- Safety Door Switch Automatically disconnects UV transilluminator, while opening the chamber door during operation

#### **Specifications Camera**

Effective Pixels: 24.1 megapixels

Type: TTL-CT-SIR with CMOS sensor Lens: Canon EF/EF-S 18-55 mm Maximum Aperture: f/2.8 - f/5.6

Image Resolution:  $720 \times 480$  up to  $5.184 \times 3.456$  Data Type Still images: Exif 2.3 (JPEG), RAW (CR2)

Movies: MOV (Image data: H264;
Audio data: Linear PCM (stereo))

Filter: Ethidium Bromide or SYBR Green (58 mm)

Inner White Light: 2 x 3 W white light LED (excl. MDOC Basic Models)

Monitor: 8" TFT liquid crystal screen
Display Format: 960 x 234 mm

Luminance: 300 cd/m<sup>2</sup>

Display Mode: NTSC/PAL mode switchable Dimensions with camera

(W x D x H): 290 x 325 x 515 mm Rated Voltages: 110 - 220 V Weight approx.: 7.7 kg

Description	PK Cat. No.	Price
		GBP
Compact Gel documentation system*	1 9.584 759	4,947,12
* incl Analysis Software Totall ah1D		,

## LLG-Agarose Standard





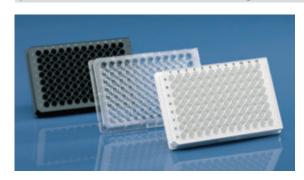
High transparency and low background of the agarose gel ensure clear and sharply defined bands.

- Very good dissolution and rapid gel formation
- High gel strength even at low agarose concentrations
- Suitable for agarose concentrations from 0.75 up to 2%
- Good separation efficiency for nucleic acid fragments between 250 bp and 23 kb
- Free of DNAse and RNAse

 $\begin{tabular}{lll} Appearance: & White powder \\ Clarity (NTU): & \le 4 \ (1.5\% \ gel) \\ Gelling point: & 36 \pm 1.5 \ ^{\circ}C \ (1.5\% \ gel) \\ Melting point: & 88 \pm 1.5 \ ^{\circ}C \ (1.5\% \ gel) \\ Gel \ strength: & \ge 1000 \ g/cm^2 \ (1\% \ gel) \\ Sulphate: & \le 0.15\% \\ \end{tabular}$ 

Capacity	PK Cat. No.	Price
g		GBP
100	1 4.681 511	48.01
500	1 4.681 512	210.28

## Microtitre plate BRANDplates®, 96-well, pureGrade™, Medium Binding





Non-treated surface. The standard plate for most applications. Particularly applicable for homogenous assays, screening, and in the field of storage.

- Non-sterile
- Grey or embossed alphanumeric coding
- ANSI/SLAS format

The scope of supply includes 1 lid per pack.

Description	Bottom shape/ Well volume µl	PK	Cat. No.	Price
				GBP
96-well, transparent	U / 330	100	4.000 238	94.01
96-well, transparent	V / 360	100	6.233 851	94.01
96-well, transparent	F / 350	100	6.231 785	94.01
96-well, transparent	C / 350	100	4.000 239	94.01
96-well, white	U / 330	100	4.000 240	252.09
96-well, white	F / 350	100	6.233 548	252.09
96-well, black	U / 330	100	4.000 241	252.09
96-well, black	F / 350	100	6.233 756	252.09

## Repetitive pipette HandyStep® touch/HandyStep® touch S



- Intuitive Operation
- Ergonomic
- Automatic Tip Ejection





Repetitive pipette with colour touch display and automatic tip size recognition.

The automatic tip size recognition of the PD-Tips II, with patented coding on the piston, automatically displays the tip size after inserting the tip. By inserting a new PD-tip of the same size, all instrument settings are maintained.

**HandyStep® touch** with the standard modes Multi-Dispensing, Auto-Dispensing, Pipetting and Favorites **HandyStep® touch S** with the additional functions Sequential Dispensing, Multi-Aspiration and Titration

- Touchscreen operation with intuitive menu navigation and integrated help function
- $\mbox{Automatic tip ejection}$  by the press of a button
- Variable volume adjustment from 1.0 µl to 50 ml
- USB-C connection for quick charging by cable
- Inductive charging with optional charging stand
- Compatible third party tips can also be used

**Scope of supply:** Repetitive pipette, includes universal AC adapter (for Europe, UK, USA, Japan, Australia and New Zealand), Li-Ion battery, USB-Type C cable, shelf/rack mount, sample PD-Tips II, operating manual, performance certificate

Туре	Colour	PK	Cat. No.	Price
				GBP
HandyStep® touch	White	1	9.284 015	751.05
HandyStep® touch S	Black	1	9.284 016	943.20

## Pasteur pipettes, PE





Disposable pipettes with fine tips for precise dispensing. Length: 150  $\mbox{\sc mm}$ 

- Graduated

Nominal	PK	Cat. No.	Price
capacity			
ml			GBP
1	500	6.206 154	32.87
3	500	6.206 772	32.87

## Dispenser tips, PD-Tips II





The tips are also compatible with all other instruments of the HandyStep® family and with repetitive pipettes from other manufacturers.

- Cylinder: PP/piston: HDPE, 0.1 ml piston: LCP
- Volumes from 0.1 ml to 50 ml
- Comply with the requirements of ISO 8655
- Supplied with batch certificate
- Adapter for sizes 25 ml and 50 ml included
- PD-Tips II cannot be autoclaved; the adapters are autoclavable

Nominal capacity	Description	Sterile	PK	Cat. No.	Price
ml					GBP
0.10	bulk	-	100	9.280 950	80.28
0.50	bulk	-	100	9.280 951	71.87
1.00	bulk	-	100	9.280 952	71.87
1.25	bulk	-	100	9.280 953	71.87
2.50	bulk	-	100	9.280 954	71.87
5.00	bulk	-	100	9.280 955	71.87
10.00	bulk	-	100	9.280 956	71.87
12.50	bulk	-	100	9.280 957	71.87
25.00	bulk	-	50	9.280 958	40.46
50.00	bulk	-	25	9.280 959	21.83

## Automatic Burettes, Schilling pattern, borosilicate glass 3.3/ PE





- Precise dosing using the press button
- Exact fine titration with the micro-screw
- With Schellbach stripe
- Resistant to chemicals
- Further parts in contact with the medium: PP, natural rubber
- Graduation according to Category B (Tolerances according to DIN EN ISO 385)
- Blue ring graduations

Capacity	Grad.	Tolerance	Height	PK	Cat. No.	Price
ml	ml	± ml	mm			GBP
5	0.05	0.030	610	1	7.300 482	55.67
10	0.05	0.045	560	1	6.070 383	55.67
15	0.1	0.045	520	1	6.070 634	55.67
25	0.1	0.075	650	1	7.200 163	55.67
50	0.1	0.075	920	1	6.059 942	64.85



## Microliter pipettes LLG-proMLP

All LLG-pro*MLP* pipettes are equipped with an adjustable eject button allowing right and left handed users to set the button\*according to their preferences.

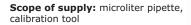


- High quality Made in France
- High accuracy, reliability and reproducibility
- Extremely light weight while the robustness still remains
- Perfect ergonomics for highest comfort
- Colour-coded push-button for quick operation
- Extremely low pipetting forces
- Built-in volume locking for error-free results
- Completely autoclavable at 121 °C
- Including individual calibration certificate (according to EN ISO 8655)

<sup>\*</sup>not available for 5 ml and 10 ml pipette









Capacity	Increments	Accuracy	PK	Cat. No.	Price
		max. vol.			
μΙ	μl	(± R%)			GBP
0.2-2	0.002	1.65	1	6.270 420	171.97
0.5-10	0.02	1.10	1	6.270 421	171.97
2-20	0.02	1.00	1	6.270 422	171.97
10-100	0.2	0.80	1	6.270 423	171.97
20-200	0.2	0.80	1	6.270 424	171.97
100-1000	2	0.80	1	6.270 425	171.97
500-5000	2	0.66	1	6.270 426	171.97
1000-10000	20	0.60	1	6.270 427	171.97

New

### Multichannel microliter pipettes

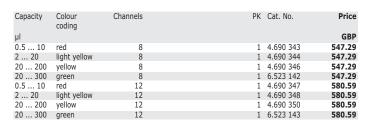




- Adjustable tip ejector button
- Integrated volume lock

The new LLG-pro*MLP* multichannel microliter pipettes combine high accuracy and reliability with ergonomic and extremely low force pipetting, relieving stress from your hand and thumb. Available volume ranges from 0.5  $\mu$ l to 300  $\mu$ l.

Scope of supply: microliter pipette, calibration tool



## LLG-Pipette stands for single channel microliter pipettes, PMMA



White, stable plastic (PMMA), industrial grade. Adjustable heights. Suitable for all kinds of pipettes.

Description	PK Cat. I	No. Price
		GBP
for 4 pipettes	1 9.280	0 014 18.24
for 6 pipettes	1 9.280	011 24.53

## LLG-Labware pipette tips, economy 2.0, PP





- Improved optical clarity and pipette fit
- Colored coded rack inserts for easy identification
- Graduated (5 and 10 ml tips without graduation, 6.326 975 with graduation)
- Autoclavable
- DNase and RNase free

Capacity	Colour	Package contents	PK	Cat. No.	Price
μl					GBP
0.1 10	transparent	10 x 96 tips in rack	960	4.668 776	32.13
0.1 10	transparent	10 x 96 tips in rack	960	6.491 406	35.98
1 200	transparent	10 x 96 tips in rack	960	4.668 778	31.09
1 200	yellow	10 x 96 tips in rack	960	4.668 779	31.09
100 1000	transparent	8 x 96 tips in rack	768	4.668 782	29.39
100 1000	blue	8 x 96 tips in rack	768	4.668 783	27.74
100 5000	clear	1 bag of 250	250	9.409 097	20.07
100 5000	clear	1 bag of 250	250	6.326 975	20.07
1000 10000	clear	1 bag of 100	100	9.409 098	16.06

## LLG-Measuring jugs with handle, PP







 $\mbox{{\it Made}}$  of highly transparent Polypropylen. With easy-to-read blue graduation.

- Autoclavable at 121 °C
- Open handle
- Stackable
- According to ISO 7056

Nominal capacity	Grad.	Ext. diam.	Height	PK	Cat. No.	Price
ml	ml	mm	mm			GBP
250	5	75	115	2	9.013 680	3.97
500	10	100	137	2	9.013 681	5.60
1000	10	125	167	2	9.013 682	8.17
2000	20	148	217	1	9.013 683	6.63
3000	25	170	244	1	9.013 684	10.58

## LLG-Griffin beakers, PP







Transparent. Low form with practical spout and easy-to-read blue graduation.

- Autoclavable at 121 °C
- Good chemical resistance
- Stackable
- According to ISO 7056

Nominal capacity	Grad.	Diam.	Height	PK	Cat. No.	Price
ml	ml	mm	mm			GBP
100	10	50	70	2	9.013 672	2.25
250	25	67	93	2	9.013 673	3.56
500	50	88	119	2	9.013 674	5.47
1000	50	109	147	2	9.013 675	8.51
2000	100	133	184	1	9.013 676	6.26

## Aspirator bottles, series 350, HDPE



Food-grade product according to Regulation (EC) No 10/2011. Natural with printed blue graduations (in L) and a screwed closure. With or without a threaded connection at the base.

Capacity	Ext. diam.	Height	Handle	PK	Cat. No.	Price	
Litres	mm	mm				GBP	
5	167	330	1	1	9.011 009	35.87	
10	206	427	1	1	9.011 010	43.63	
25	278	580	2	1	9.011 025	88.16	
Height in mm without cap.							

## Cylindrical jars with ribbed cap, HDPE







The cylindrical jars are supplied with insert and cap. Thanks to the large neck, they are suitable for powders, solid specimen, creamy or semisolid substances, crystals and hygroscopic substances. Suitable for foodstuff according to EC Regulation 1935/2004 and EC Regulation 10/2011.

Nominal capacity	Ext. diam.	Neck i. d.	Height	PK	Cat. No.	Price
ml	mm	mm	mm			GBP
70	50	36	60	10	4.672 397	15.48
120	56	36	71	10	4.672 394	16.92
250	69	50	94	10	4.672 395	18.00
500	86	70	107	10	4.672 396	21.96
1000	111	85	128	10	4.672 393	30.60
1500	111	87	182	10	9.073 444	33.84
2000	111	87	235	10	9.073 446	38.52

### Vial disposer Arnold/Marco, PP



For the safe and quick disposal of HPLC vials. Thanks to the safety funnel with an extra-large neck diameter, your vials fall easily through the opening without jamming or clogging the opening. The hinged lid safely holds back solvent vapors and other contaminants.

- For the disposal of large quantities of sample vials
- Connection for optional activated carbon filter available
- Low overall height, also suitable for safety storage cabinets (Marco)

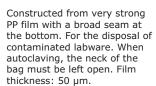
Scope of supply: 10 I canister, safety funnel

Туре	Dimensions (W x D x H)	Funnel diam.	PK	Cat. No.	Price
	mm	mm			GBP
Arnold	195 x 195 x 380	185	1	6.328 027	242.10
Marco	195 x 195 x 380	140	1	6.328 028	192.60

## LLG-Autoclavable bags, PP







Capacity	Width	Length	Package contents	PK	Cat. No.	Price
L	mm	mm				GBP
1.5	200	300	Dispenser box of 100 bags	100	9.404 099	6.74
6.0	300	500	Box of 500 bags	500	9.404 220	64.94
22.0	400	780	Box of 250 bags	250	9.404 221	58.15
25.0	500	780	Box of 250 bags	250	9.404 222	71.90
32.0	600	800	Box of 250 bags	250	9.404 223	78.56
32.0	600	780	Box of 100 bags	100	9.404 103	32.56
72.0	700	1100	Box of 250 bags	250	9.404 224	142.33
72.0	700	1100	Box of 75 bags	75	9.404 105	40.34

#### Needles and waste containers Medibox®













6.321 709

6.321 708

- Break-resistant, puncture-resistant and stable when used as intended in accordance with the specifications of DIN EN ISO 23907 - Can be temporarily closed with one hand

- Can be permanently sealed Marking of maximum fill level on the lid or directly on the box
- Autoclavable at 134° for up to 18 minutes (does not apply to the Medibox® 0.8 litre)
- Certified according to: DIN EN ISO 23907; Directive 2008/68/EC and ADR-UN approval: UN 3291
- Meets the requirements for waste containers according to TRBA 250

Volume	Filling volume	Dimensions (W x D x H)	PK	Cat. No.	Price
litres	L	mm			GBP
0.8	0.67	98 x 98 x 180	9	6.321 710	26.24
2.4	2.0	151 x 151 x 200	9	6.321 707	24.30
4.7	3.9	190 x 190 x 200	5	6.321 708	19.17
5.7	4.8	190 x 190 x 257	5	6.321 709	22.77

## LLG-Absorbent, oil and chemical binder, granules





Universal chemical and oil binder for all liquids, also for solvents. Very high absorption capacity (up to 1:75 of aqueous solutions). Almost dust-free granules with colour indicator: colour changes to yellow in contact with acids, to red in contact with alkalis. Disposal according to the pollutant recorded.

Capacity	Package	PK	Cat. No.	Price
kg				GBP
1.5	Square handle bottle	1	6.283 037	46.17
5.0	Bucket	1	6.270 479	133.47

### LLG-Safety Eyeshields lady



- CE approved to EN 166 and EN 170
- Panoramic wrapping lens
- 180° visual field
- Nosepad and terminal tips made from soft, moldable material for optimal comfort and individual customisation
- 100% UV protection (up to 400 nm)
- Weight only 25 g

Colour	Lens	PK	Cat. No.	Price
				GBP
white/green	clear, AF+, AS+, 2C-1.2 U 1 FT KN CE	1	9.006 007	9.87
white/pink	clear, AF+, AS+, 2C-1.2 U 1 FT KN CE	1	9.006 008	9.87
black/green	clear, AF, AS, 2C-1.2 U 1 FT CE	1	9.006 009	8.78

## Disposable Gloves Kimtech™ Purple Nitrile™ EN ISO 374-1 EN ISO 374-5 EN 420





KIMTECH

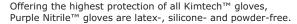
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Ansell



- Contains no natural rubber latex
- Textured fingertip, enhances wet and dry grip
- Virus Protection
- **AQL 0.65**
- Cat. III Low Chemical resistant

According to EN ISO 374-1:2016/Type B, EN ISO 374-5:2016, EN 420, Suitable for food handling.

Size	Length	PK Cat. No.	Price
	mm		GBP
XS (5 to 6)	240	100 9.005 420	23.32
S (6 to 7)	240	100 9.005 421	16.77
M (7 to 8)	240	100 9.005 422	16.77
L (8 to 9)	250	100 9.005 423	16.77
XL (9 to 10)	250	90 9.005 424	23.32

#### Hand-Held Drench Hoses



Two sprays in one. The hose can be used as a fixed eyewash when fitted into the mount. The hose can also be removed from the mount so that other body parts and reclining patients can be treated.

- Wall-/ table mount included
- according to DIN 1988 und DIN EN 1717
- according to DIN EN 15154-2:2006 and ANSI Z358.1-2014
- DIN-DVGW tested and certificated
- DIN certification label included

Spray height: 250mm Hose length: 1500mm Connection: 1/2" swivel nut

Water output: 7 litres/min per spray head, regulated

Inlet fitting: M 28 x 80 mm

Description	Connection	PK	Cat. No.	Price
				GBP
1 spray head, 45° angle	½"female	1	9.733 778	252.00
2 spray heads, 45° angle	½"female	1	9.733 779	278.10
1 spray head,	½"female	1	9.733 786	208.80

## Thermal protection gloves TempTec 332, neoprene

EN 388 EN ISO 374-1 EN 407

Type A









EN 511





- Thermal insulation due to double-knit cotton
- Good grip due to pebbled palms
- Chemical resistance to acids and aliphatic solvents
- 1 pair per pack

Length: 355 mm black/blue Colour: CE: Cat. III

Size	PK	Cat. No.	Price
			GBP
8	1	6.269 287	41.95
9	1	6.281 320	41.95
10	1	6.316 498	41.95

Reitenspieß

## Precision wipes, KIMTECH SCIENCE, 1-ply



Exceptional Workplaces



Precision tissue wipes for critical cleaning in the electronic, optic and precision mechanics industries, lint-free, highly absorbent and strong, even when wet. 1-ply, white. Anti-static.

Dimensions	Package contents	PK	Cat. No.	Price
mm				GBP
304 x 304	Box of 196 wipes	1	9.413 020	16.54
115 x 215	Box of 280 wipes	1	9.413 021	4.41

## Wipes, WypAll\*L20/L30



Exceptional Workplaces



Perforated, blue Airflex material. Bulky wipes with excellent absorption capacity and wet strength. For cleaning-up large spillages and suitable for most surfaces.

L20: AIRFLEX\*, 2-ply L30: AIRFLEX\*, 3-ply

Туре	Width	Package contents	Colour	PK	Cat. No.	Price
	mm					GBP
L20	330	1 roll x 500 wipes	blue	1	9.413 044	19.31
L20	185	6 rolls x 300 wipes	white	6	9.413 091	75.48
L30	370	1 roll x 670 wipes	blue	1	9.413 046	53.60

## LLG-Hand towels, 3-ply



Bright white, extra absorbent, completely unfolding, matching most dispenser systems, economical use due to high absorbency and comfortable size. Suitable for LLG-Dispenser for hand towels, Cat. No. 7.618 375.

Width	Length	Package contents	PK	Cat. No.	Price
mm	mm				GBP
220	420	20 Packs with 100 tissues	20	6.266 568 <b>8</b> -	4.58

### Brushes, Set



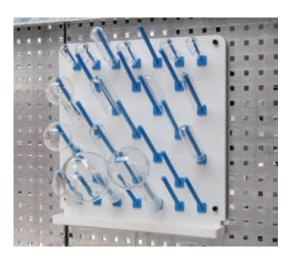
#### Set consisting of:

Pipette brush Ø 5 mm, L 500 mm (9.019 010)
Reagent bottle brush with wool tip Ø 10 mm, L 190 mm (9.019 020)
Reagent bottle brush with wool tip Ø 30 mm, L 270 mm (9.019 040)
Reagent bottle brush with head bundle Ø 10 mm, L 250 (9.019 030)
Bottle brush with head bundle Ø 50 mm, L 330 mm (9.019 050)
Bottle brush with head bundle Ø 60 mm, L 470 mm (9.019 060)
Beaker brush Ø 85 mm, L 390 mm (9.019 070)
Beaker brush Ø 85 mm, L 430 mm (9.019 080)
Beaker brush Ø 100 mm, L 430 mm (9.019 090)
Beaker brush Ø 100 mm, L 630 mm (9.019 092)

Price	Cat. No.	PK	Тур
			.,,
GBP			
82.80	9.019.002	1	Set

## Draining rack LaboPlast®, PVC





The stable rods are individually placed into the holes of the draining rack and are clicked into place. Their positions can be changed at any time.

**Scope of supply draining rack with drain channel:** Draining rack incl. wall mounting set (screws, dowels), removable drain channel incl. drainage connection and drain tube

Width	Height	PK Cat. No.	Price
mm	mm		GBP
400	400	1 9.003 374	202.91
500	500	1 9.003 375	242.01
600	600	1 9.003 376	276.44

## LLG-Trolleys, Stainless Steel



Made of CNS 18/10, material no. 1.4301. All shelves are produced with an all-around raised profile edge. This prevents anything from slipping over the edge. The load capacity per shelf is 80 kg. Wall bumpers made of plastic (polyamide) on all four corners protect against damage.

Description	Width	Depth	Height	PK	Cat. No.	Price
	mm	mm	mm			GBP
2 shelves, vertical spacing 585mm	900	600	950	1	9.148 101	296.89

## Wiper Bowl® Polytex®

The cleaning cloths are packed in the practical Wiper Bowl® dispenser bucket. This means that the moist cleaning substances remain effective for a particularly long time and the wipes do not dry out.

- consisting of 100% extremely robust and low-lint polypropylene
- for removing oils, grease, adhesives, paints etc, adhesives, colours etc. and stubborn soiling

#### Attention:

Minimum order quantity = 6 buckets !



Description	PK	Cat. No.	Price
			GBP
1 bucket with 72 tissues at 25 x 25 cm	1	7.673 365	9.38

## Spirit burner, 18/10 steel



With a wick height adjuster and a sealing cap. Capacity approx. 60ml.

Туре	PK Cat. No.	Price
		GBP
Spirit burner	1 9.018 560	18.45

## LLG-Laboratory Power Failure Detector

- Immediate visual and acoustic alarm
- Alarm can sound for short power outages, or for larger periods of at least 12 hours (can be switched off manually).
- Plug safety cover offers protection against accidental disconnection of plug
- Maximum total power of connected devices 3500 W 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



Туре	PK Cat. No.	Price
		GBP
LLG-Laboratory Power Failure Detector	1 6.255 819	39.81

## Safety Bunsen Burner, schuett phoenix II



Ideal for safety cabinets

## schuett-biotec.de





For sterilising, heating, flame sterilising. For use in every microbiological laboratory or in safety cabinets.

**schuett phoenix II eco**: (with LED control lamp and foot-switch), Start flame by foot-switch or button (On/Off). Best suited for use in microbiological safety cabinets. Best price-to-performance ratio. **schuett phoenix II standard**: (brilliant colour display, selection of native language, sensor and foot-switch) Start/Stop flame by activating sensor 1x or 2x, use foot switch or press button by hand. Continuous display of timer.

**schuett phoenix II accu**: (brilliant colour display, selection of native language, sensor and built-in extra heavy duty power cells) Start/stop flame by activating sensor 1x or 2x, use foot-switch or press button by hand. Continuous display of timer and battery power. Operates for up to 30 hours, intermittent use. Complete with battery charger for 3-hour recharging. Ideal for mobile usage.

Power supply: 100 - 240 V, 50/60 Hz

Туре	PK	Cat. No.	Price
			GBP
schuett phoenix II eco*	1	9.018 760	456.30
schuett phoenix II standard*	1	9.018 761	577.60
schuett phoenix II accu	1	9.018 762	652.25
*incl. foot switch, stainless steel			

## Inoculation loops and loop stands

## schuett-biotec.de





**Inoculation loops** made from stainless steel, special stainless steel wire or platinum-iridium wire (90/10). It can be heated to red heat. Length: 60 mm. Wire diameter: 0.5 mm.

**Inoculation loop stand** robust and sturdy made of plastic (autoclavable). Accommodates up to 6 inoculation loop holders at any one time.

Туре	Description	Loop diam.	PK	Cat. No.	Price
		mm			GBP
P-I 1	Platinum-iridium	1	1	9.520 180	49.46
P-I 2	Platinum-iridium	2	1	9.520 181	49.46
P-I 3	Platinum-iridium	3	1	9.520 182	49.46
P-I 5	Platinum-iridium	5	1	9.520 184	49.46
W-1.5	Stainless steel	1.5	10	9.520 185	27.99
W-2.5	Stainless steel	2.5	10	9.520 186	27.99
W-4.0	Stainless steel	4.0	10	6.233 696	27.99
Inoculation loop stand R (round)	(Diam. x H) 80 x 50 mm		1	9.520 190	65.32
Inoculation loop stand L (long)	(L x W x H) 180 x 50 x 50 mm		1	9.520 191	69.98

## Petri dish turntables, schuett petriturn

## schuett-biotec.de



9.520 201



9.520 200

For uniform inoculation of petri dishes. Easy-to-use. Made in Germany.

#### schuett petriturn-M

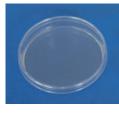
With manually operated. Petri dish (90 mm or 150 mm diameter).

#### schuett petriturn-E

Electrically driven (100 - 240 V, 50/60 Hz). Easy operation of the rotary table, contact-free start via IR sensor (adjustable rotation time from 3 to 120 sec.), in continuous operation or optionally in foot switch mode. Infinitely adjustable speed from 10 to 120 rpm. For Petri dishes up to Ø 100 mm (Ø 150 mm optional). Compact housing made of stainless steel.

Туре	Dimensions	PK	Cat. No.	Price
	mm			GBP
schuett petriturn-M, manually driven	(Dia. x H) 160 x 45	1	9.520 201	210.99
schuett petriturn-E, electrically driven	(Dia. x H) 160 x 70	1	9.520 200	459.38
Foot pedal for schuett petriturn-E		1	9.520 203	81.52
Turntable adapter for Petri dishes up to 150mm diameter		1	9.520 204	66.18

## LLG-Petri dishes, PS





Made in the EU



Produced under aseptic conditions in an ISO 6 cleanroom. Contact plate with counting grid.

- Stable thickness to prevent any deformations while using
- Stackable
- With or without vents
- Aseptic (90 mm diam.) or beta irradiated sterile versions (all sizes)
- Packed in sleeves á 10 dishes or 20 dishes (90 mm diam. dishes)

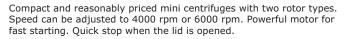
Ext. diam.	Description	Height approx.	PK	Cat. No.	Price
mm		mm			GBP
60	with triple vents, aseptic	14	1080	6.323 696	99.49
60	without vents, aseptic	14	1080	6.323 697	99.49
90	with triple vents, aseptic	16	480	6.285 823	55.49
90	without vents, aseptic	16	480	6.285 824	55.49
60	with triple vents, sterile	14	1080	4.678 371	119.89
60	without vents, sterile	14	1080	4.678 372	119.89
90	with triple vents, sterile	16	480	6.285 816	62.08
90	without vents, sterile	16	480	6.285 817	62.08
150	with triple vents, sterile	19	140	4.680 144	97.89

## Mini centrifuge LLG-uniCFUGE 2









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.

Scope of supply: Centrifuge, mains cable

#### **Specifications**

Max. RCF: 1200 x g and 2000 x g 4000 rpm and 6000 rpm Max. speed: Motor: brushless DC motor

Max. load: 6 x 0.5/1.5/2 ml and 2 x 8-tube PCR

strips (0.2 ml) 140 x 120 mm Dimensions (diam. x H):

Power supply: 100 ... 240 V, 50/60 Hz

Warranty: 3 vears

Description	Plug type	PK	Cat. No.	Price
				GBP
LLG-uniCFUGE 2 with universal rotor	EU	1	6.263 510	109.29

## Safe-lock reaction tubes, PP









- A small clasp on the patented cap locking device clips onto the rim of the tube
- Autoclavable when open (121 °C, 20 min.)
- With frosted labelling area.
- Excellent mechanical stability for centrifugation
- Graduated

Capacity	Colour	PK	Cat. No.	Price
ml				GBP
0.5	Transparent	500	9.409 320	47.49
1.5	Transparent	1000	9.409 331	48.06
2.0	Transparent	1000	9.409 341	65.60
0.5	Assorted colours	500	9.409 357	51.51
1.5	Assorted colours	1000	9.409 358	51.51
2.0	Assorted colours	1000	9.409 359	70.92

### Centrifuge Frontier™ Multi FC5707



### Including rotor for 15 ml and 50 ml tubes





Compact multifunctional centrifuge for general laboratory applications, with splash-proof control panel and touch-wheel control.

- Backlit, two-lined LCD display
- Quiet brushless motor
- 10 acceleration and deceleration rates
- Fast spin for small measurement runs
- Timer 10 s to 99 h 59 min 59 s
- Memory for up to 99 programmes
- Lid locking system
- Imbalance sensor
- Angle rotor for 4 x 50 ml or 4 x 15 ml tubes

Scope of supply: Centrifuge, 4 x 50/15 ml angle rotor

#### Specifications

Max. rcf: 4445 x g Speed: 200 ... 6800 rpm Permitted ambient temperature: 2 ... 35 °C 277 x 356 x 236 mm Dimensions (WxDxH): Power supply: 230 V, 50/60 Hz 10 kg Weight:

Туре PK Cat. No. Price GBP FC5707+R09 1 6.492 207 1,249,23

## Eppendorf Tubes® BioBased, PP, with screw cap, HDPE





Eppendorf Tubes® BioBased are made of 90% bio-based plastic. For cell culture and cell biology applications, as well as for sample preparation in microbiology and molecular biology laboratories.

- Pyrogen-, DNase-, RNase- and DNA-freeLid with grooved sides
- Conical with screw cap
- Large labeling field
- ISCC PLUS and ACT certification

Nom. capacity	Max. rcf	Package	PK	Cat. No.	Price
L	х д				GBP
5	2500	2 bags of 100	200	4.687 109	71.22
15	19500	10 bags of 50	500	4.687 110	166.55
25	17000	8 bags of 25	200	4.687 111	77.01
50	19500	20 bags of 25	500	4.687 112	198.76

## Ultrapure water system arium® mini plus extend/mini plus extend UV



SARTURIUS

- For type 1 and type 3 water

Removable dosing unitCompact



arium<sup>®</sup> mini plus extend

A combined ultrapure water system was developed to provide ASTM type 1 and type 3 water. arium® mini is the first ultrapure water system with integrated bag tank technology. The 5-litre bags are made of multilayer and specialised film, conforming to biocompatibility standards. The pure water can be stored in the side integrated 5-litre bag until the production of type 1 pure water.

The arium® mini extend versions have a removable dispenser with magnetic holder for ergonomic and splash-free filling. The combination of the dispenser with the ultrapure water system enables a small footprint. Can be combined with Sterile Plus final filter or Cell Plus filter.

Туре	PK	Cat. No.	Price
			GBP
arium® mini plus extend	1	6.493 291	5,553.00
arium® mini plus extend UV	1	6.493 292	6,210.00

## Accessories for Ultra Pure Water System arium® mini plus

Туре	PK	Cat. No.	Price
			GBP
Sterile filter	1	6.288 218	110.70
Pre-treatment cartridge	1	7.647 749	332.10
Scientific kit ultrapure cartridge	1	7.647 755	269.10
5-litre bag	1	7.647 756	41.76

# Laboratory bottles, DURAN®, with retrace code, with screw cap



With blue PP screw cap and pouring ring. ISO 4796-1 compliant. Thread acc. to DIN 168-1 and approximate graduations.

Capacity	Diam.	Height with cap	Neck thread	PK	Cat. No.	Price
ml	mm	mm	GL			GBP
1000	101	230	45	10	4.679 010	150.12
2000	136	265	45	1	9.072 007	35.32
3500	160	295	45	1	9.071 682	112.64
5000	182	335	45	1	9.072 008	153.47
10000	227	415	45	1	9.072 004	274.84
15000	268	450	45	1	7.076 312	365.75
20000	288	510	45	1	9.072 009	588.60

### Distilled water



Deionized and UV irradiated. Acc to DIN 43530/EN 385. In plastic canister.

#### Specifications

pH value: <7.0
Conductivity: <5 μS/cm
Hardness: <0.02 mmol/l
Chlorine content: <2 mg/l

Capacity	PK Cat. No.	Price
L		GBP
10.0	1 6.273 85	52 <b>11.39</b>
20.0	1 6.280 90	00 <b>23.50</b>
60.0	1 6.289 28	<b>68.64</b>

### Overhead stirrer EUROSTAR 20 digital

## IΚΑ°

## **IKA**°

Overhead stirrer designed for simple stirring tasks for quantities up to 15 I (H<sub>2</sub>O) Continuous comparison of shaft speed to desired speed is maintained, and variations are adjusted automatically. This guarantees a constant speed even with changes in viscosities of the sample.

- Digital speed display
- Infinitely adjustable speed
- Push-through agitator shafts
- Overload protection
- Short-term overload operation



- For stirring quantities up to 1 L (H<sub>2</sub>O).

- Infinitely variable speed from 0 to 2500 rpm
- White top plate suitable for observing colour reactions

Magnetic stirrer Mini MR standard

- Power supply with adapter for EU/CH/UK/USA

#### **Specifications**

Stirring quantity max. (H2O): Max. viscosity:

Motor rating input/output:

Speed range:

Max. torque at stirring shaft:

Display:

Chuck range:

Dimensions (W  $\times$  D  $\times$  H):

Weight:

Protection class DIN EN 60529:

Power supply:

15 I 10000 mPas 70/42 W 0/30 to 2000 rpm 20 Ncm LED 0.5 to 10 mm 86 x 208 x 248 mm

4.4 kg IP 42

230 V, 50/60 Hz

#### **Specifications**

Max. stirring volume, (H₂O):

Speed range:

Permissible ambient temperature:

Permissible relative moisture:

Plate material:

Top plate dimensions (W x D): Overall dimensions (W x D x H):

Supply requirements:

Protection to DIN EN 60529:

1 I

0 ... 2500 rpm 5 ... 40 °C

80%

Polyester film 115 x 115 mm

115 x 129 x 37 mm

100 ... 240 V, 50/60 Hz

**TP42** 

Туре	Connector	PK	Cat. No.	Price
				GBP
EUROSTAR 20 digital	EU	1	9.816 691	1,121.40
EUROSTAR 20 digital	UK	1	9.816 692	1,127.57
EUROSTAR 20 digital	CH	1	9.816 693	1,126.65

туре	Plug type	PK	Cat. No.	Price
				GBP
Mini MR standard	EU/CH/UK/USA	1	9.720 211	265.50

## Crescent-shaped stirring rotors, PTFE





The semi-circular shape of the paddle is ideal for mixing in roundbottom flasks. The pivoting blade allows insertion into vessels with narrow necks and/or ground joints.

The stirrer shafts consist of a PTFE-jacketed, stainless steel shaft and a stirrer paddle made of solid PTFE.

#### Operating temperature: -200 °C to +250 °C

Ø	Ø	To fit	PK	Cat. No.	Price
agitator	agitator shaft	chuck			
		diam.			
mm	mm	mm			GBP
65	8	6.5	1	9.197 121	144.06
90	8	6.5	1	9.197 122	139.72
90	10	8.0	1	9.197 127	158.11
90	10	8.0	1	9 197 124	150.37

## Propeller, 3 blades, PTFE





The blades are inclined at 45°. Recommended for medium to high speed operations.

The stirrer shafts consist of a PTFE-jacketed, stainless steel shaft and a stirrer paddle made of solid PTFE. High chemical resistance makes it almost universally suitable.

#### Operating temperature: -200 °C to +250 °C

Ø agitator	Ø agitator shaft	To fit chuck diam.	PK Cat. No.	Price
mm	mm	mm		GBP
50	6	4.0	1 9.197 138	142.01
75	8	6.5	1 9.197 130	208.69
75	10	8.0	1 9.197 140	230.64

## Eppendorf ThermoMixer™ FP/F0.5/F1.5/F2.0



### Inclusive block

## eppendorf



The devices combine precise heating and mixing with the highest stability, even at maximum mixing frequency. Mixing and incubation steps can be performed independently.

- For 24 reaction vessels or one microplate/deepwell plate
- Simple and intuitive operation using predefined temperature keys (37 °C, 42 °C, 56 °C and 95 °C)
- Improved temperature homogeneity with the new ThermoTop

#### **Specifications**

Temperature operation range: Temperature adjustable range: Accuracy/Resolution: Max. heating time:

Shaking frequency ThermoMixer™ F1.5/F2.0:

Shaking frequency ThermoMixer™ FP/F0.5:

Orbit: Weight:

Electrical heating power: Power supply:

FP // F0.5 // F1.5 // F2.0

Min. 4 °C above RT, max. 100 °C 1 °C/100 °C  $\pm 0.5$  °C at 20 ... 45 °C 18 °C/min // 15 °C/min // 11 °C/min // 13 °C/min

300 to 1500 rpm

300 to 2000 rpm 3 mm 6.1 kg // 6.2 kg // 6.3 kg // 6.3 kg 220-240 V, 50/60 Hz

#### PK Cat. No. Price Type (W x D x H) GBP 206 x 304 x 164 ThermoMixer™ FP 9.776 905 2.942.10 ThermoMixer™ F0.5 206 x 304 x 163 2,825.10 1 9.776 936 ThermoMixer™ F1.5 ThermoMixer™ F2.0 206 x 304 x 170 9.776 904 2,755.80 206 x 304 x 170 1 9.776 937 2,755.80

#### Roller mixer CTR-6



- For CO2 incubators
- With remote control





- With remote control to protect the electronics from the CO<sub>2</sub> environment of the incubator
- With stepper motor, guaranteed service life up to 10000  $\ensuremath{\text{h}}$
- Timer from 1 min to 96 h, continuous
- Stackable with optional stacking kits (up to 3 devices)

Туре	Movement type	PK Cat. No.	Price
			GBP
CTR-6	rotating/wobbling	1 6.523 372	1,251.90

## Stacking kits for roller mixer CTR-6

Price	Cat. No.	PK	Description	Туре
GBP				
176.40	6.523 373	1	For 2 devices	CTR SK2
264.60	6.523 374	1	For 3 devices	CTR SK3

## Centrifuge/Vortexer MSC-2P



- 2 functions in one device

- For PCR plates

MSC-2P is a compact, benchtop digital centrifuge and vortex mixer for unskirted or semi-skirted PCR plates. The combination of centrifugation and mixing functionality ensures fast operation and repeatable results. Suitable for high sample throughput and particularly small volumes. With 4 independent modes for centrifugation, vortexing (up to 5 min), combined centrifugation/vortexing motion and the spin-mix-spin algorithm (up to 10 cycles), which reduces errors during sample preparation.

Scope of supply: Centrifuge, rotor for 2 PCR plates



grant

Туре	Movement type	PK Cat. No.	Price GBP
MSC-2P	circling	1 4.708 897	666.00

## Spectrophotometers XD 7000 VIS and XD 7500 UV-VIS





XD 7000 VIS

UV-VIS and VIS spectrophotometers with dual beam optics. The instruments benefit from a barcode test recognition system, over 150 pre-programmed analytical methods and automatic cuvette detection. Further functions of the spectrophotometers include measurement of transmission and absorbance, scanning of spectra, kinetics analysis and creation of user-defined methods.

- Premium optical system with reference beam
- Automatic test recognition with internal barcode reader
- Supports round cuvettes with 13, 16, 24 mm and rectangular cuvettes with 10, 20, 50 mm
- Automatic cuvette type detection
- More than 150 analytical methods implemented
- 7" colour display and keypad
- Ethernet, USB
- 20 user profiles possible
- Up to 1000 user programmes
- Creation of up to 100 further user-defined methods
- Password protection possible

**Specifications** Optical System:

Wavelength range:

Bandwidth:

Wavelength accuracy: Wavelength repeatability:

Photometric range: Photometrical resolution/Transmission:

Internal Storage:

Lamps:

Dimension (W  $\times$  D  $\times$  H):

Weight: Power supply: Protection class: XD 7000 VIS // XD 7500 UV-VIS grid monochromator with

reference beam

320 - 1100 nm // 190 - 1100 nm

4 nm

±1 nm on all Holmium peaks

better than 0.5 nm -3.3 to +3.3 Abs

0.001 Abs/0.1%

0.003 Abs below 0.6 Abs 40 MB for approx. 5000 data sets

Tungsten-halogen-lamp // Xenon flash lamp 422 x 323 x 195 mm approx. 4.5 kg

100 - 240 V, 50/60 Hz IP 30

#### PK Cat. No. Туре Price GBP XD 7000 VIS XD 7500 UV-VIS 6.272 436 3,981.42 6,842.61 1 6.272 437

### Disposable cuvettes

## Kartell



Disposable cuvettes for spectroscopy, in optical-quality PS and UV grade PMMA with optical windows for optimum transmittance when using wavelengths from 340 nm to 800 nm (PS) and from 280 nm to 800 nm (PMMA). The range  $\pm 1\%$  absorption, this is the vital when batch analysis is being undertaken.

Capacity	Material	PK	Cat. No.	Price
ml				GBP
4.5	PS	100	9.406 431	17.60
1.5	PS	100	9.406 432	18.14
2.5	PS	100	9.406 433	18.07
4.5	PS	100	9.406 434	7.40
4.5	PMMA	100	9.406 435	25.38
2.5	PMMA	100	9.406 436	24.73
1.5	PMMA	100	9.406 437	28.66
4.5	PMMA	100	9.406 438	22.25
	ml 4.5 1.5 2.5 4.5 2.5	,	ml 4.5 PS 100 1.5 PS 100 2.5 PS 100 4.5 PS 100 4.5 PS 100 4.5 PMMA 100 2.5 PMMA 100 1.5 PMMA 100	MI 4.5 PS 100 9.406 431 1.5 PS 100 9.406 433 2.5 PS 100 9.406 433 4.5 PS 100 9.406 434 4.5 PS 100 9.406 434 4.5 PMMA 100 9.406 435 2.5 PMMA 100 9.406 436 1.5 PMMA 100 9.406 437

## LLG-Cuvette rack, PP







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

- Numbered positions
- Autoclavable at 121 °C

Length	Width	Height	PK Cat. No.	Price
mm	mm	mm		GBP
210	70	35	1 4.682 061	8.83

## Cold Light Source KL 1600 LED Package



Suitable for photo documentation



- Very long service life



- Powerful illumination system with a brightness of 680 lm
- Ripple free illumination for digital imaging applications
- Colour temperature of 5.600 K does not change when the light source is dimmed

#### Scope of supply:

LED Cold light source KL 1600 LED incl. 2-armed gooseneck light guide, 2 focus lenses, according power cord

#### **Specifications**

Colour temperature: Light flux: Dimensions KL 1600 LED (\)

Dimensions KL 1600 LED (W x D x H): Dimensions light guide ( $\emptyset$  x L):

Weight:

Power supply:

5600 K 680 lm

114 x 231 x 137 mm 4.5 x 600 mm

3.9 kg

100 ... 240 V, 50/60 Hz

Туре	Plug type	PK	Cat. No.	Price
				GBP
KL 1600 LED Package	EU	1	4.666 289	1,072.80

## Square cover slips





Made of D263 M borosilicate glass. Accurate cutting free of flaws and blisters.

Width	Length	Thickness	PK	Cat. No.	Price
mm	mm	mm			GBP
15	15	0.13-0.16	200	9.161 015	4.30
20	20	0.13-0.16	200	9.161 020	5.23
22	22	0.13-0.16	200	9.161 022	5.72
24	24	0.13-0.16	200	9.161 024	7.06
20	20	0.13-0.16	100	9.161 019	2.83
22	22	0.13-0.16	100	9.161 023	3.09
24	24	0.13-0.16	100	9.161 025	3.52

### Microscope, RED 100



Ideal For educational purposes



- Cost-effective

RED 100 Series, the ideal microscope series for pupils and students.

- Widefield eyepiece WF10X/18 mm, with pointer
- Cordless LED illumination 20 mA, 3.5 V, 70 mW with intensity control
- 10 years warranty
- Monocular head, 45° inclined, 360° rotating
- Reversed triple revolving nosepiece
- Achromatic objectives EA 4X, 10X, 40X S
- Coarse and fine focusing system with tension adjustment
- Side gliding stage, movable back and forth
- "one-touch" sample clips
- Built-in 0.65 N.A. condenser and iris diaphragm



Туре	Description	PK	Cat. No.	Price
				GBP
RED 100	Monocular	1	6.285 856	248.40

### LLG-Hand tally counter





Mechanical hand tally counter with a counting capacity of 9999 for counting, e.g. blood cells, or bacterial colonies.

Description	PK Cat. No.	Price
		GBP
LLG handniece counter	1 6 328 021	17 96

#### Microscope slides





According to ISO 8037/1. Prewashed and polished. Nominal thickness 1 mm. Size 76 x 26 mm. Also available with 20 mm, frosted, writing patch at one

Туре	Description	Edge finish	PK	Cat. No.	Price
					GBP
Without frosted end	Extra white	Cut	50	9.161 110	2.25
With frosted end	Extra white	Cut	50	9.161 145	3.15
Without frosted end	Extra white	Ground 45°	50	9.161 120	4.90
With frosted end	Extra white	Ground 45°	50	6.050 042	6.08
Without frosted end	Extra white	Ground 90°	50	6.229 386	4.64
With frosted end	Extra white	Ground 90°	50	6.050 000	4.08

end.

#### Vacuum Ovens VO

Reliable, convenient and energy-efficient. Separately controllable and directly heated thermoshelves ensure precise temperature control and, thanks to the digital pressure control, the load is dried quickly and

- Safety glass door with armoured glass on the inside and splinter shield on the outside
- Digital pressure control
- Directly heated and individually controllable thermoshelves
- With 2 thermoshelf connections
- Optional: Pump base cabinet and energy-efficient vacuum pump

#### ControlCOCKPIT with two colour displays

Scope of supply: Vacuum drying oven, 1 aluminium thermoshelf, calibration certificate (for 160 °C at 20 mbar), software AtmoCONTROL

#### **Specifications**

Working temperature range: at least 5 above ambient

to +200 °C

Setting temperature range:

20 °C to +200 °C

Setting accuracy:

up to 99.9: 0.1 °C/ from 100: 0.5 °C

Vacuum:

V049

VO101

5 to 1100 mbar

385 x 330 x 385

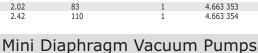
545 x 400 x 465

Power supply: 230 V, 50/60 Hz

Type	Nom. capacity	Max. shelves	Included shelves	Internal dimensions (W x D x H) mm	External dimensions (W x D x H) mm
V/029	20	1	1	385 v 250 v 305	550 v 400 v 607

dimensions (W x D x H)	capacity
mm	kW
550 x 400 x 607	0.82
550 x 480 x 687	2.02
710 x 550 x 767	2.42

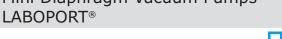
Rated



Net weight

ka

55



V029

PK



Cat. No.

4.663 352

Price

GBP

7,113.60

8,032.50 10,671.30

memmer



### Piston pump LLG-uniVACUUPUMP 1

The **portable** piston pump LLG-uniVACUUPUMP 1 has been developed for vacuum and pressure applications in the laboratory. The LLG-uniVACUUPUMP 1 operates oil-free and can also be used as a compressor to a pressure up to 3.3 bar. Not recommended for pumping organic, acidic or basic vapours.

#### **Advantages:**

- Cost-effective alternative for water pumps
- Oil-free, suitable for continuous operation
- Suction/pressure connection: hose nozzle DN 6 for hose inner diameter

Scope of supply: Pump, incl. 2 hose clamps, EU + UK-plug power cord



#### **Specifications**

9.2/11 l/min Pump speed 50/60 Hz at atmospheric pressure: 292 mbar Final pressure: 3.3 bar Max. overpressure: Max. operating gas temperature: 60 °C Permissible ambient temperature: 10 ... 40 °C Suction/pressure connection: DN 6 Dimensions (W x D x H): 194 x 114 x 191 mm Weiaht: 2.0 kg

Power supply: 230 V/50 Hz IP code: IP 20 Warranty: 3 years

Туре	PK Cat. No.	Price
		GBP
LLG-uniVACUUPUMP 1	1 6.263 580	282.51

For Filtration, SPE, Degassing, Fluid aspiration.

- PTFE-coated diaphragm is ideal for aggressive/corrosive gases and vapours
- Pump head made from PPS (Polyphenylsulfide), valves made from FFPM (Perfluoro rubber)

#### **Specifications**

Connectors for tube:

N 816.3 KT.18: ID6 mm 5 to 40 °C Permissible media and ambient temperature: Flow rate: Up to 1.8 m<sup>3</sup>/h Ultimate vacuum: Up to 20 mbar abs. IP code: IP 20

Туре	Flow	Max.	PK Cat. No.	Price
	rate	pressure		
	I / min.	bar		GBP
N 816.3 KT.18	16	0.5	1 7.620 376	800.10

## Moisture balances MB23 and MB25



The Moisture Analysers MB-23 and MB-25 provide stable results with 0.1% or 0.05% moisture resolution because of precision weighing technology. They are supplied with either an infra-red or halogen heating system. Applicable for most applications.

- Halogen (MB-25) or infra-red (MB23) technology
- Sample holder included in MB25 but as option in MB23
- Delivered with 50 x 90 mm aluminium sample dishes and protective cover

Specifications MB23 // MB25

Capacity: 110 g

Repeatability 3 g/10 g: 0.3%/0.2% // 0.2%/0.05%

Readability: 0.1% or 0.01 g // 0.05% or 0.005 g
Timer: 1 ... 99 min, 30-second increments

to 60 min

Temperature range: 50 ... 160 °C Operating temperature: 5 ... 40 °C Pan size (diam.): 90 mm

Pan size (diam.): 90 mm Dimensions (W x D x H): 170 x 130 x 280 mm

Net weight: 2.3 kg

Power supply: 100 - 240 V, 50/60 Hz

Туре	PK	Cat. No.	Price
			GBP
MB23	1	9.947 604	1,271.54
MB25	1	9.947 605	1,741.43

## Hanging Scales HDB-N

Convenient for hanging loads.

- Ideal for quick checking in goods receiving and shipping, also suitable for cases
- Data hold function: For easy reading of the weight, the display can be "frozen" in different ways. Either automatically when the weighing value remains unchanged or manually by pressing the Hold key
- Hook (stainless steel), can be hinged
- Batteries included, 2 x 1.5 V AAA, operating time approx. 180 h



Туре	Capacity	Readability	Weight	PK	Cat. No.	Price
	kg	g	g			GBP
HDB 5K5N	5	5	200	1	6.231 173	55.80

#### Ioniser AD-1683A





#### Suitable for all scales





The ioniser can be used as a stand-alone unit with all balances from any manufacturer, making it a useful addition to any weighing environment. The positive and negative ions generated by the ioniser neutralise static charges almost immediately. The tungsten electrode needles maintain the ambient ion balance. The integrated IR sensor allows touchless ON/OFF control, making the removal of static charges even more efficient.

- Adjustable discharge time in either timer mode (3 s or 10 s) or manual mode (any time)
- No risk of contamination as the ioniser uses the direct current
- method and does not require a fan to discharge the ions
   External IR switch (AX-IR-SWITCH) optionally available
  (For switching the ioniser on and off close to hand.)

Price	Cat. No.	PK	Туре
GBP			
1,105.98	6.524 445	1	AD-1683A
230.96	6.493 501	1	AX-IR-SWITCH

## Playing card rejects



Standard size for use as disposable sample carriers or spatulas. Pack size:  $1\ kq$ , not sorted.

Туре	PK Cat. No.	Price
		GBP
Unprinted and laminated on both sides	1 6.051 731	11.16

### Analytical balance ADT



New



- Internal adjustment
- Touch display

Analytical balance with flexible functionality and touch display for use in the pharmaceutical industry as well as other fields. Data query and remote control of the balance is carried out via computer or CRM/ERP systems using the KERN Communication Protocol.

- Backlit LCD display
- GLP/ISO record keeping
- RS 232 data interface and USB (Device)

Scope of supply: Analytical balance, draught shield



#### **Specifications**

Readability: 0.0001 g
Automatic adjustment: internal
Weighing surface (WxD): Ø 90 mm
Plug type: EU/UK/CH/US/AUS
Power supply: 100 ... 240 V, 50/60 Hz

Warranty: 3 years

Туре	max. load	Plug type	PK	Cat. No.	Price
	g				GBP
ADT 100-4	120	EU/UK/CH	1	4.711 753	1,530.00
ADT 200-4	220	EU/UK/CH	1	4.711 754	1,710.00
ADT 300-4	320	EU/UK/CH	1	4.711 755	1,890.00



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