

LABORTOPS

CARBOY- AND WIDE MOUTH BOTTLES

- New Assortment
- High Quality
- Large Selection

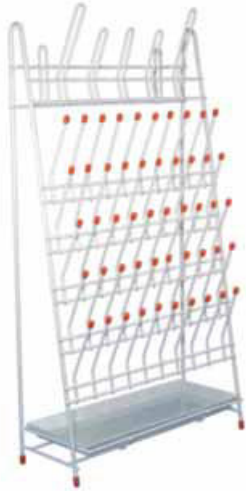


New

Page 3

General Laboratory Supply	2 - 4	pH- and Conductivity Measurement	18 - 19
Cleanroom	5	Sampling / Sample Preparation	20 - 21
Personal Protection	6 - 7	Tempering	22 - 23
Waste Disposal	8	Ultrasonic	24
Filtration	9	Laboratory Burner	25
Chromatography	10	Time and Environmental Measurement	26
Dispensing and Titration	11	Temperature Measurement	27
Liquid Handling	12 - 13	Stirring, Shaking and Mixing	28 - 29
Genomics	14	Weighing	30
Microscopy	15	Centrifugation	31
Spectroscopy	16 - 17	Vacuum Technology	32

LLG-Draining racks, PE-coated wire



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

-99%

Type	PK	Cat. No.	Price	Now
LLG-Draining racks	1	6.281 619	EUR 99,99	EUR 88,99

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 standard 8 x 12 array. Handy lid snaps into place via tabs on each end of rack. Dimensions (L x W x H): 246 x 121 x 50 mm

-99%

Colour	PK	Cat. No.	Price	Now
Blue, green, pink, yellow and orange	5	9.193 982	EUR 99,99	EUR 88,99

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. 3500W power supply 230V 50Hz
- 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

-99%

Type	PK	Cat. No.	Price	Now
LLG-Laboratory Power Failure Detector	1	6.255 819	EUR 99,99	EUR 88,99

LLG-All-round Cutter with rubber grip



An 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.

-99%

Type	PK	Cat. No.	Price	Now
LLG-All-round Cutter 18 mm	1	9.160 656	EUR 99,99	EUR 88,99

Tally counter, digital



Effective and practical counter with a sturdy, chrome finished housing. Ideal for counting blood cells, bacterial colonies, drops of liquid 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.

-99%

Description	PK	Cat. No.	Price	Now
Tally counter	1	6.267 411	EUR 99,99	EUR 88,99



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

-99%

Capacity	Dimensions (dia. x H)	Neck diam.	Cap size	PK	Cat. No.	Price	Now
l	mm	mm				EUR	EUR
10	249 x 376	65	83	1	4.692.534	99,99	88,99
20	285 x 518	65	83	1	4.692.535	99,99	88,99
50	376 x 665	65	83	1	4.692.536	99,99	88,99

LLG-Wide mouth bottle, HDPE, round



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

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

-99%

Capacity	Diam.	Neck diam. int.	Height	PK	Cat. No.	Price	Now
ml	mm	mm	mm			EUR	EUR
30	34.6	21.0	59.1	12	4.692.544	99,99	88,99
60	39.2	21.1	81.5	12	4.692.545	99,99	88,99
125	50.3	28.3	94.7	12	4.692.546	99,99	88,99
250	60.9	32.8	127.0	12	4.692.547	99,99	88,99
500	72.7	44.0	164.0	12	4.692.548	99,99	88,99
1000	92.0	51.9	195.0	6	4.692.549	99,99	88,99
2000	119.0	90.8	236.0	1	4.692.550	99,99	88,99

LLG-Wide mouth bottle, PP



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

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

-99%

Capacity	Diam.	Neck diam. int.	Height	PK	Cat. No.	Price	Now
ml	mm	mm	mm			EUR	EUR
30	34.8	21.4	59.8	12	4.692.538	99,99	88,99
60	39.7	21.3	82.5	12	4.692.539	99,99	88,99
125	50.6	28.6	95.5	12	4.692.540	99,99	88,99
250	61.6	33.0	127.4	12	4.692.541	99,99	88,99
500	73.1	43.8	164.0	12	4.692.542	99,99	88,99
1000	92.7	53.3	195.0	6	4.692.543	99,99	88,99

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
- Very good chemical resistance to most acids, bases and alcohols
- Autoclavable
- Leak-proof

-99%

Capacity	Dimensions (W x D x H)	Cap size	Neck diam. int.	PK	Cat. No.	Price	Now
ml	mm		mm			EUR	EUR
125	39.4 x 60.0 x 97.3	28	21.1	12	4.692.551	99,99	88,99
250	54.0 x 75.5 x 112.0	38	28.8	12	4.692.552	99,99	88,99
500	64.7 x 100.0 x 140.6	48	38.0	12	4.692.553	99,99	88,99
1000	70.2 x 125.2 x 175.0	53	43.7	6	4.692.554	99,99	88,99

Label printer DYMO® LabelWriter™ 550



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

- 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		-99%

Type	PK	Cat. No.	Price	Now
DYMO® LabelWriter 550	1	4.687 585	99,99	88,99

Deep freeze labels TOUGH-SPOTS®



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

-99%

Diam.	Colour	For vessels	PK	Cat. No.	Price	Now
mm					EUR	EUR
9.5	White	0.5 ml Tubes	1000	9.040 711	99,99	88,99
9.5	Blue	0.5 ml Tubes	1000	9.040 712	99,99	88,99
9.5	Green	0.5 ml Tubes	1000	9.040 713	99,99	88,99
9.5	Red	0.5 ml Tubes	1000	9.040 714	99,99	88,99
9.5	Yellow	0.5 ml Tubes	1000	9.040 715	99,99	88,99
13.0	White	1.5/2.0 ml Tubes	1000	9.040 716	99,99	88,99
13.0	Blue	1.5/2.0 ml Tubes	1000	9.040 717	99,99	88,99
13.0	Green	1.5/2.0 ml Tubes	1000	9.040 718	99,99	88,99
13.0	Red	1.5/2.0 ml Tubes	1000	9.040 719	99,99	88,99
13.0	Yellow	1.5/2.0 ml Tubes	1000	9.040 720	99,99	88,99
13.0	Lavendel	1.5/2.0 ml Tubes	1000	6.287 530	99,99	88,99

Sample transport box DuraPorter® XL



High-capacity container for the safe and convenient transport of laboratory samples, instruments and valuable items. Specifically 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
With lid:	Yes
Stackable:	No

-99%

Colour	PK	Cat. No.	Price	Now
			EUR	EUR
Blue	1	4.692 499	99,99	88,99
Red	1	4.692 500	99,99	88,99
Yellow	1	4.692 501	99,99	88,99

Inserts for sample transport box DuraPorter XL



4.692 503

4.692 504

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

- Separately usable
- Lid can be completely removed
- Sufficient depth for filling with ice

-99%

For tubes diam.	For tubes	Array	PK	Cat. No.	Price	Now
mm	ml				EUR	EUR
13	3.5 ... 7.5	168	3	4.692 503	99,99	88,99
18	10 ... 15	100	3	4.692 502	99,99	88,99
13 ... 30	3.5 ... 50	-	3	4.692 504	99,99	88,99

Cleanroom Gloves AdvanTech529, nitrile



Reinforced mechanical resistance for short-term operations. Manufacturing process guarantees a very low level of contaminants: rates of particles, powder-free, non-volatile residue, extractables; compatible with ISO 5 class (Class M3.5 for International system). 100% nitrile formula enables anti-static properties. 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

-99%

Size	Length	PK	Cat. No.	Price	Now
	mm			EUR	EUR
6	300	100	6.270 501	99,99	88,99
7	300	100	6.270 502	99,99	88,99
8	300	100	6.270 503	99,99	88,99
9	300	100	6.270 504	99,99	88,99
10	300	100	6.270 505	99,99	88,99

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.

-99%

Type	Dimensions	Cleanroom Class ISO	PK	Cat. No.	Price	Now
	mm				EUR	EUR
100	305 x 305	5 + 6	150	9.390 185	99,99	88,99
100	224 x 224	5 + 6	300	9.390 186	99,99	88,99
AP	305 x 305	6 - 9	150	9.390 187	99,99	88,99
AP	224 x 224	6 - 9	300	9.390 188	99,99	88,99
SV	305 x 305	7 - 9	250	9.390 189	99,99	88,99
SV	224 x 224	7 - 9	500	9.390 190	99,99	88,99

Panoramic Eyeshield 619



Panoramic Eyeshield designed for use in rooms with controlled contaminations (sterile and clean rooms) or in aseptic conditions. Its soft structure supports multiple cycles of steam, 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

-99%

Lens	PK	Cat. No.	Price	Now
			EUR	EUR
clear / 2C-1.2 U 1 B CE	1	6.286 800	99,99	88,99

Sticky Swabs, ESD



Sticky Swabs - ESD safe cleaning stems: Dustfree sticky swabs are specially used and designed for a high degree dust-free environment (class10-100). Anti-static treatment can safely dissipate electrostatic charge. Sticky swabs are applicable for manufacturing and assembling static sensitive products. Property: ESD safe, good absorption, soft and good tenacity, excellent agility, non-volatile, environment-friendly, no thrill odor.

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

-99%

Description	Cleanroom Class ISO	PK	Cat. No.	Price	Now
				EUR	EUR
1 mm Ø	1-2	25	6.272 061	99,99	88,99
2 mm Ø	1-2	25	6.272 062	99,99	88,99
3 mm Ø	1-2	25	6.272 063	99,99	88,99
Kit, box of 75 swabs mixed (25 x 1mm, 25 x 2 mm, 25 x 3 mm)	1-2	1	6.272 064	99,99	88,99

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

-99%

Size	PK	Cat. No.	Price	Now
			EUR	EUR
S	15	4.653 906	99,99	88,99
M	15	4.653 907	99,99	88,99
L	15	4.653 908	99,99	88,99
XL	15	4.653 909	99,99	88,99
XXL	15	4.653 910	99,99	88,99

LLG-Laboratory coat, 100% cotton



- Very solid 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

-99%

Description	Size	PK	Cat. No.	Price	Now
				EUR	EUR
Ladies coat	36/38	1	9.414 342	99,99	88,99
Ladies coat	40/42	1	9.414 343	99,99	88,99
Ladies coat	44/46	1	9.414 344	99,99	88,99
Mens coat	44/46	1	9.414 345	99,99	88,99
Mens coat	48	1	9.414 346	99,99	88,99
Mens coat	50	1	9.414 347	99,99	88,99
Mens coat	52	1	9.414 348	99,99	88,99
Mens coat	54	1	9.414 349	99,99	88,99
Mens coat	56	1	9.414 350	99,99	88,99

Premium Respirators 8825+ and 8835+, Moulded Masks



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 mask 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 possible reducing fogging of safety glasses.

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

-99%

Type	Protection-level	Usage restrictions	PK	Cat. No.	Price	Now
					EUR	EUR
8825+	FFP2 RD	12 x TLV	5	6.284 248	99,99	88,99
8835+	FFP3 RD	50 x TLV	5	6.284 249	99,99	88,99

LLG-Safety Eyeshields *basic* +



- CE approved to EN 166 and EN 170
- Economic Safety Eyeshields 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

-99%

Lens	PK	Cat. No.	Price	Now
			EUR	EUR
Clear, uncoated, 2-1.2 U 1 F CE	10	6.290 868	99,99	88,99

Safety shower combination ClassicLine, free-standing



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 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
- In accordance with 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



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

-99%

Description	PK	Cat. No.	Price	Now
			EUR	EUR
without bowl	1	6.239 809	99,99	88,99
with bowl	1	6.239 810	99,99	88,99
with face wash unit, bowl and lid	1	6.317 045	99,99	88,99

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

-99%

Description	PK	Cat. No.	Price	Now
			EUR	EUR
Safety shower test cart	1	7.656 739	99,99	88,99

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

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



Disposable protective glove in nitrile with enhanced comfort in use and 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, EN 420 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. 300mm
Thickness (measured in double layer):	0.16mm

-99%

Size	PK	Cat. No.	Price	Now
			EUR	EUR
S	100	6.270 366	99,99	88,99
M	100	6.270 367	99,99	88,99
L	100	6.270 368	99,99	88,99
XL	90	6.270 369	99,99	88,99

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

-99%

Type	External dimensions (W x D x H) mm	Weight kg	PK	Cat. No.	Price	Now
					EUR	EUR
Pure	1210 x 600 x 700	22	1	6.312 313	99,99	88,99

Holder for Waste Sacks



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

-99%

Description	Int. diam. mm	Height mm	PK	Cat. No.	Price EUR	Now EUR
Stand	120	250	1	7.060 716	99,99	88,99

LLG-Autoclavable bags, PP



Constructed from very strong 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.

-99%

Description	Dimensions (D x W) mm	auto-clavable at	PK	Cat. No.	Price EUR	Now EUR
standard	400 x 780	134 °C	250	9.404 221	99,99	88,99
standard	500 x 780	134 °C	250	9.404 222	99,99	88,99
standard	600 x 800	134 °C	250	9.404 223	99,99	88,99
standard	600 x 780	134 °C	100	9.404 103	99,99	88,99
standard	700 x 1100	134 °C	250	9.404 224	99,99	88,99
standard	700 x 1100	134 °C	75	9.404 105	99,99	88,99
highly transparent	200 x 300	121 °C	100	9.404 020	99,99	88,99
highly transparent	400 x 780	121 °C	500	9.404 101	99,99	88,99
highly transparent	600 x 800	121 °C	500	9.404 102	99,99	88,99
highly transparent	700 x 1100	121 °C	350	9.404 104	99,99	88,99

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. Autoclavable.

-99%

Dimensions (D x W) mm	Colour	auto-clavable at	Thickness µm	PK	Cat. No.	Price EUR	Now EUR
310 x 660	transparent	121 °C	45	50	9.404 050	99,99	88,99
415 x 600	transparent	121 °C	45	50	9.404 051	99,99	88,99
610 x 810	transparent	121 °C	45	50	9.404 052	99,99	88,99
500 x 600	red*	134 °C	50	200	6.285 813	99,99	88,99
630 x 890	red*	134 °C	50	200	6.285 814	99,99	88,99
910 x 1150	red*	134 °C	50	100	6.285 815	99,99	88,99

* with sterilisation indicator

Safety and space-saving canisters, HDPE, electrically conductive



-99%

Type	Nom. capacity L	PK	Cat. No.	Price EUR	Now EUR
Space saver canisters	5	1	4.687 106	99,99	88,99
Safety canister*	10	1	4.005 602	99,99	88,99
Safety canister*	20	1	4.005 671	99,99	88,99

* 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

-99%

Diam. mm	Filtration time secs.	PK	Cat. No.	Price EUR	Now EUR
55	20	100	9.047 400	99,99	88,99
70	20	100	9.047 401	99,99	88,99
90	20	100	9.047 402	99,99	88,99
110	20	100	9.047 403	99,99	88,99
125	20	100	9.047 404	99,99	88,99
150	20	100	9.047 405	99,99	88,99
185	20	100	9.047 406	99,99	88,99
240	20	100	9.047 407	99,99	88,99
270	20	100	9.047 408	99,99	88,99
320	20	100	9.047 409	99,99	88,99
385	20	100	9.047 410	99,99	88,99
500	20	100	9.047 411	99,99	88,99

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



Medium fast filtration, smooth.

For fat determinations, free from fats and resins. Ether soluble residue <0.1 mg for diam. 270 mm filters.

-99%

Diam. mm	Filtration time secs.	Thickness mm	PK	Cat. No.	Price EUR	Now EUR
110	22	0.16	100	9.048 503	99,99	88,99
125	22	0.16	100	9.048 504	99,99	88,99
150	22	0.16	100	9.048 505	99,99	88,99
185	22	0.16	100	9.048 506	99,99	88,99
240	22	0.16	100	9.048 507	99,99	88,99
270	22	0.16	100	9.048 508	99,99	88,99
320	22	0.16	100	9.048 509	99,99	88,99

LLG-Qualitative filter paper, sheets



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

-99%

Dimensions mm	Filtration time secs.	PK	Cat. No.	Price EUR	Now EUR
460 x 570	88	100	9.045 810	99,99	88,99

LLG-Extraction thimbles, cellulose



Neutral and fat free. With excellent retention capacity.

-99%

Diam. mm	Length mm	PK	Cat. No.	Price EUR	Now EUR
20	80	25	9.045 701	99,99	88,99
22	80	25	9.045 700	99,99	88,99
25	100	25	9.045 709	99,99	88,99
26	60	25	9.045 707	99,99	88,99
28	80	25	9.045 711	99,99	88,99
30	80	25	9.045 708	99,99	88,99
33	80	25	9.045 702	99,99	88,99
33	94	25	9.045 703	99,99	88,99
33	100	25	9.045 704	99,99	88,99
33	118	25	9.045 706	99,99	88,99
43	123	25	9.045 710	99,99	88,99

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

-99%

Diam. mm	Filtration time secs.	Pore size µm	PK	Cat. No.	Price EUR	Now EUR
42.5	88	5 - 13	100	9.045 800	99,99	88,99
47.0	88	5 - 13	100	9.045 801	99,99	88,99
55.0	88	5 - 13	100	9.045 802	99,99	88,99
70.0	88	5 - 13	100	9.045 803	99,99	88,99
90.0	88	5 - 13	100	9.045 804	99,99	88,99
110.0	88	5 - 13	100	9.045 805	99,99	88,99
125.0	88	5 - 13	100	9.045 806	99,99	88,99
150.0	88	5 - 13	100	9.045 807	99,99	88,99
185.0	88	5 - 13	100	9.045 808	99,99	88,99
240.0	88	5 - 13	100	9.045 809	99,99	88,99

HPLC starter kits Generation 2.0, GL 45



HPLC Starter Kit 1



HPLC Starter Kit 3

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

-99%

Type	PK	Cat. No.	Price	Now
			EUR	EUR
HPLC safety set 1	1	4.669 378	99,99	88,99
HPLC safety set 2	1	4.669 379	99,99	88,99
HPLC safety set 3	1	4.678 694	99,99	88,99

Exhaust Filter, GL 14, PP

b.safe



MEDIUM

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

-99%

Type	Life time	PK	Cat. No.	Price	Now
				EUR	EUR
SMALL	3 months	2	6.313 839	99,99	88,99
MEDIUM	6 months	2	6.313 840	99,99	88,99
LARGE	6 months	2	6.313 841	99,99	88,99

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, recloseability of the packaging, etc.) remain unchanged. Cover type: UltraBond Short Thread Cap, blue, hole, Silicon beige/PTFE white, slitted.

-99%

Description	PK	Cat. No.	Price	Now
			EUR	EUR
clear, labelling field	100	6.266 923	99,99	88,99

LLG-Glass-Syringes, borosilicate glass



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

-99%

Capacity	PK	Cat. No.	Price	Now
			EUR	EUR
1 ml	5	6.314 007	99,99	88,99
2	5	6.314 008	99,99	88,99
5	5	6.314 009	99,99	88,99
10	5	6.314 010	99,99	88,99
20	5	6.314 011	99,99	88,99
50	5	6.314 012	99,99	88,99

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

-99%

Volume	Graduations	Accuracy max. vol. (± R%)	Precision max. vol. (≤ CV%)	PK	Cat. No.	Price	Now
ml	ml					EUR	EUR
0.25 - 2.5	0.05	0.6	0.2	1	6.282 275	99,99	88,99
0.5 - 5	0.1	0.6	0.2	1	6.282 276	99,99	88,99
1 - 10	0.2	0.6	0.2	1	6.282 277	99,99	88,99
2.5 - 30	0.5	0.6	0.2	1	6.282 278	99,99	88,99
5 - 60	1.0	0.6	0.2	1	6.282 279	99,99	88,99
10 - 100	2.0	0.6	0.2	1	6.282 280	99,99	88,99

Bottle top burette Titrette®



- 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 1.5V 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

-99%

Volume	Accuracy max. vol. (± R%)	Precision max. vol. (≤ CV%)	PK	Cat. No.	Price	Now
ml					EUR	EUR
10	0.10	0.05	1	6.259 209	99,99	88,99
25	0.07	0.025	1	9.271 332	99,99	88,99
50	0.06	0.02	1	9.271 333	99,99	88,99

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

-99%

Capacity	Grad.	Tolerance	Height	PK	Cat. No.	Price	Now
ml	ml	± ml	mm			EUR	EUR
15	0.1	0,045	520	1	6.280 403	99,99	88,99
25	0.1	0,075	650	1	6.280 404	99,99	88,99
50	0.1	0,075	920	1	6.280 405	99,99	88,99

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

-99%

Capacity	Dimensions (dia. x H)	Neck thread	PK	Cat. No.	Price	Now
ml	mm	GL			EUR	EUR
25*	36 x 74	25	1	6.262 931	99,99	88,99
50	46 x 91	32	1	7.671 498	99,99	88,99
100	56 x 105	45	1	6.262 932	99,99	88,99
250	70 x 143	45	1	9.071 961	99,99	88,99
500	86 x 181	45	1	6.259 101	99,99	88,99
1000	101 x 230	45	1	6.259 102	99,99	88,99
2000	136 x 265	45	1	6.259 797	99,99	88,99

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

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 years warranty

-99%

Capacity	Increments	Accuracy max. vol. (± R%)	Precision max. vol. (≤ CV%)	PK	Cat. No.	Price	Now
µl	µl					EUR	EUR
0.1 - 2	0.002	2.0	1.5	1	9.411 590	99,99	88,99
0.5 - 10	0.01	1.0	0.5	1	9.411 591	99,99	88,99
1 - 10	0.01	1.0	0.7	1	9.411 592	99,99	88,99
2 - 20	0.02	1.0	0.5	1	9.411 593	99,99	88,99
5 - 50	0.1	1.0	0.4	1	9.411 594	99,99	88,99
10 - 100	0.1	0.8	0.2	1	9.411 595	99,99	88,99
20 - 200	0.2	0.6	0.2	1	9.411 596	99,99	88,99
100 - 1000	1	0.5	0.2	1	9.411 597	99,99	88,99

Pipette stands Twister™ universal 336 for single channel microliter pipettes



Unique design 6-position pipette work station 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.

-99%

Colour	PK	Cat. No.	Price	Now
			EUR	EUR
Sapphire blue	1	6.253 916	99,99	88,99

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 on two work spaces. 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
- Colored coded rack inserts for easy identification
- Autoclavable
- DNase and RNase free

-99%

Capacity	Colour	Package contents	PK	Cat. No.	Price	Now
µl					EUR	EUR
0.1 ... 10	transparent	10 x 96	960	4.668 776	99,99	88,99
0.1 ... 10	transparent	10 x 96	960	6.491 406	99,99	88,99
1 ... 200	transparent	10 x 96	960	4.668 778	99,99	88,99
1 ... 200	yellow	10 x 96	960	4.668 779	99,99	88,99
100 ... 1000	transparent	8 x 96	768	4.668 782	99,99	88,99
100 ... 1000	blue	8 x 96	768	4.668 783	99,99	88,99

LLG-Disposable Reagent reservoirs economy, PS



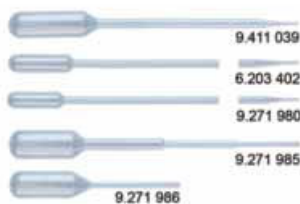
Made from polystyrol. Designed for use with multi-channel pipettes and can accommodate up to 12-channel standard pipettes. Available as sterile and non-sterile versions.

- DNase-, RNase- and pyrogen-free certified

-99%

Capacity	Description	PK	Cat. No.	Price	Now
ml				EUR	EUR
25	non-sterile, bulk	100	6.282 144	99,99	88,99
25	sterile, single packed	100	6.282 145	99,99	88,99
50	non-sterile, bulk	100	6.282 146	99,99	88,99
50	sterile, single packed	100	6.282 147	99,99	88,99

Pipettes, Pasteur, PE



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

-99%

Type	Capacity	Length	Sterile	Graduations	PK	Cat. No.	Price	Now
	ml	mm					EUR	EUR
Standard	1.0	150	-	+	500	9.411 031	99,99	88,99
Standard, single wrapped*	1.0	150	+	+	500	9.411 038	99,99	88,99
Standard	1.5	230	-	+	400	7.200 111	99,99	88,99
Standard	2.0	153	-	+	500	7.631 961	99,99	88,99
Standard	2.5	150	-	+	500	6.229 723	99,99	88,99
Macro	3.0	155	-	+	500	9.411 030	99,99	88,99
Macro, single wrapped	3.0	150	+	+	500	9.411 035	99,99	88,99
Macro	3.0	155	+	+	500	4.653 509	99,99	88,99
Standard	4.0	150	-	-	500	6.234 514	99,99	88,99
Macro	6.0	149	-	-	400	9.411 034	99,99	88,99
Standard, with ring mark	10.0	170	-	-	200	9.411 033	99,99	88,99
Standard	10.0	300	-	-	100	6.203 402	99,99	88,99

* Total volume

Pasteur pipettes, PE



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.

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

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

-99%

Nominal capacity	PK	Cat. No.	Price	Now
ml			EUR	EUR
1	500	6.206 154	99,99	88,99
3	500	6.206 772	99,99	88,99

-99%

Volume	Tolerance	Overall length	PK	Cat. No.	Price	Now
ml	± ml	± 10 mm			EUR	EUR
0.5*	0.005	300	1	6.262 520	99,99	88,99
1	0.006	300	1	7.659 228	99,99	88,99
2	0.006	330	1	6.262 521	99,99	88,99
3	0.01	330	1	6.262 522	99,99	88,99
4	0.01	400	1	6.262 523	99,99	88,99
5	0.01	400	1	7.659 239	99,99	88,99
10	0.02	440	1	7.659 240	99,99	88,99
20	0.03	510	1	6.262 529	99,99	88,99
25	0.03	520	1	6.262 530	99,99	88,99
50	0.05	540	1	6.262 532	99,99	88,99

* Error limit USP ±0.006ml

Macropipette controllers



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

-99%

For	PK	Cat. No.	Price	Now
			EUR	EUR
Pipette volume up to 2ml	1	4.008 322	99,99	88,99
Pipette volume up to 10ml	1	4.008 323	99,99	88,99
Pipette volume up to 25ml	1	4.008 324	99,99	88,99

Pipette tray, PVC



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

-99%

Dimensions	PK	Cat. No.	Price	Now
(W x D x H)			EUR	EUR
mm	1	9.200 394	99,99	88,99

UV sterilisation cabinets



These UV sterilisation cabinets provide a convenient area for setting up PCR reactions in a nucleic acid free environment thus limiting PCR reaction contamination. Acting effectively as a low cost alternative to a Cleanroom, the powerful UV lights on the cabinets denature nucleic acids in 5 to 30 minutes making them unsuitable for amplification. The cabinet incorporates safety features to prevent user exposure to UV light. The UV lights themselves are timer controlled and there are safety switches on the cabinets doors which turn off the UV lights when opened. Constructed from 10 mm acrylic, the cabinets also act as efficient shields from beta radiation emissions and can therefore be safely used 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

-99%

Description	PK	Cat. No.	Price	Now
			EUR	EUR
UV sterilisation cabinets Maxi with timer, four UV lights and white light	1	9.584 774	99,99	88,99
General purpose tray white, 680 x 540 mm	1	6.258 034	99,99	88,99
Radiation hazard tray yellow, 680 x 540 mm	1	9.584 788	99,99	88,99

LLG-96-well PCR Plates, PP

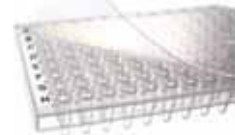


- Clear well bottom for sample visibility, with V-Bottom
- Compatible with thermocyclers of all leading brands
- Consistent wall thickness for uniform heat transfer
- Holes in the skirt for easy handling
- Virgin polypropylene, certified RNase-, DNase- and Endotoxin-free

-99%

Description	Capacity	PK	Cat. No.	Price	Now
	µl			EUR	EUR
96 Well Plate, skirted	200	50	6.313 409	99,99	88,99
96 Well Plate, non-skirted	200	100	6.313 408	99,99	88,99
96 Well Plate, half skirted	200	50	6.313 394	99,99	88,99

LLG-PCR adhesive film and foil



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

PCR Film: Clear film allows both the visual inspection of samples and fluorescence measurements.

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

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

-99%

Description	Temp. range	PK	Cat. No.	Price	Now
	°C			EUR	EUR
PCR film	-40 ... 102	100	6.313 398	99,99	88,99
PCR foil	-80 ... 104	100	6.313 400	99,99	88,99
QPCR foil	-70 ... 100	100	6.313 399	99,99	88,99

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 its availability and legal information.

-99%

Type	Capacity	PK	Cat. No.	Price	Now
	ml			EUR	EUR
MBP DNA Away®	250	1	6.228 401	99,99	88,99

Greenough-Stereomicroscope Educational-Line OSE



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

-99%

Type	Description	Magnification	PK	Cat. No.	Price	Now
OSE 421	Binocular	2x / 4x	1	4.666 529	EUR 99,99	EUR 88,99

Staining jar, PMP (TPX®), Hellendahl pattern



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

-99%

Dimensions (W x D x H)	PK	Cat. No.	Price	Now
mm			EUR	EUR
58 x 53.5 x 86	1	9.161 350	99,99	88,99

Phase contrast microscopes professional line OBN



OBN 158

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

OBN 158:

- Phase contrast microscope, incl. centering 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, eye cups, user manual

-99%

Type	Lighting	PK	Cat. No.	Price	Now
				EUR	EUR
OBN 158	20 W halogen	1	4.666 528	99,99	88,99
OBN 159	3 W LED	1	6.491 267	99,99	88,99

LLG-Slide dispenser



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 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.

-99%

Type	PK	Cat. No.	Price	Now
			EUR	EUR
Dispenser	1	9.161 000	99,99	88,99

Densitometer DEN-600



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

- LCD display
- 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

-99%

Type	Wave-length nm	Dimensions (W x D x H) mm	Weight kg	PK	Cat. No.	Price EUR	Now EUR
DEN-600	600 ± 10	120 x 145 x 65	0.5	1	4.684 303	99,99	88,99

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 300nm to 900nm
- Standard deviation at 320nm ±0.004 extinction units

Polystyrene (PS) cuvettes

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

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

-99%

Description	Volume ml	Operating range nm	Material	PK	Cat. No.	Price EUR	Now EUR
Macro	2.5 to 4.5	300 to 900	PMMA	100	9.406 111	99,99	88,99
Semi-micro	1.5 to 3.0	300 to 900	PMMA	100	9.406 115	99,99	88,99
Macro	2.5 to 4.5	340 to 900	PS	100	9.406 110	99,99	88,99
Semi-micro	1.5 to 3.0	340 to 900	PS	100	9.406 114	99,99	88,99

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 optionally available
- LCD display
- 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
Warranty:	3 years

-99%

Type	Plug type	PK	Cat. No.	Price EUR	Now EUR
LLG-uniSPEC 2	EU	1	6.263 610	99,99	88,99

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

-99%

Length mm	Width mm	Height mm	PK	Cat. No.	Price EUR	Now EUR
210	70	35	1	4.682 061	99,99	88,99

Reflectance spectrophotometer TR 515

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

- CMOS sensor (256 picture elements, double array)
- Intuitive 3.5 inch TFT color 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
- Is able to 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			EUR	EUR
TR 515	10/8 + 5/4	1	6.325 549	99,99	88,99

-99%

LLG-Cuvettes, glass



LLG-Cuvettes have two clear windows, 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 mm or 48 mm. Each cuvette is supplied with a PTFE lid.

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

-99%

Type	Volume	Path length	PK	Cat. No.	Price	Now
	ml	mm			EUR	EUR
quartz glass	3.5	10	2	4.681 513	99,99	88,99
quartz glass	17.5	50	2	4.681 514	99,99	88,99
optical glass	3.5	10	4	4.681 515	99,99	88,99
optical glass	17.5	50	4	4.681 516	99,99	88,99

Cells W600



Cells made of optical glass or Borosilicate glass 3.3, 21 mm 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 available on request.

-99%

Type	Path length	Material	PK	Cat. No.	Price	Now
	mm				EUR	EUR
W600/OG/10	10	optical glass	1	6.207 120	99,99	88,99
W600/OG/1"	25.4	optical glass	1	9.947 342	99,99	88,99
W600/OG/33	33	optical glass	1	6.093 322	99,99	88,99
W600/OG/50	50	optical glass	1	6.207 119	99,99	88,99
W600/OG/100	100	optical glass	1	6.235 055	99,99	88,99
W600/OG/5/4"	133.35	optical glass	1	9.947 343	99,99	88,99
W600/B/10	10	Borosilicate glass 3.3	1	6.241 927	99,99	88,99
W600/B/33	33	Borosilicate glass 3.3	1	6.086 921	99,99	88,99
W600/B/100	100	Borosilicate glass 3.3	1	6.253 940	99,99	88,99
W600/B/5/4"	133.35	Borosilicate glass 3.3	1	9.947 345	99,99	88,99

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

-99%

Type	PK	Cat. No.	Price	Now
LLG-pH electrode with gel electrolyte	1	4.681 924	99,99	EUR 88,99

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.

- 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

-99%

Range	PK	Cat. No.	Price	Now
pH 0 ... 14	100	9.129 808	99,99	EUR 88,99

pH-Fix indicator strips, special



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

-99%

Range	PK	Cat. No.	Price	Now
pH			EUR	EUR
1.7 ... 3.8	100	9.130 386	99,99	88,99
2.0 ... 9.0	100	9.130 380	99,99	88,99
3.6 ... 6.1	100	9.130 387	99,99	88,99
4.0 ... 7.0	100	6.280 450	99,99	88,99
4.5 ... 10.0	100	9.130 383	99,99	88,99
6.0 ... 10.0	100	9.130 392	99,99	88,99
7.5 ... 9.5	100	9.130 390	99,99	88,99

* PlopTop tube.

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 date of manufacture depending on pH value.

-99%

pH-value at 25 °C	Colour	Capacity ml	PK	Cat. No.	Price	Now
2.00	Red	250	1	9.040 949	99,99	88,99
4.01	Red	250	1	9.040 950	99,99	88,99
7.00	Yellow	250	1	6.240 744	99,99	88,99
9.21	Blue	250	1	9.040 951	99,99	88,99
10.00	Blue	250	1	6.240 745	99,99	88,99
4.01	Red	500	1	6.206 907	99,99	88,99
7.00	Yellow	500	1	6.229 762	99,99	88,99
4.01	Red	1000	1	9.040 955	99,99	88,99
7.00	Yellow	1000	1	6.238 677	99,99	88,99
10.00	Blue	1000	1	6.238 676	99,99	88,99

Laboratory instrument inoLab® pH 7110



Basic pH/mV laboratory instrument for all tasks where reliable, accurate readings are required quickly and easily. With large LCD segment display and 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 °C ± 0.1 °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

-99%

Type	Description	PK	Cat. No.	Price	Now
pH 7110	Stand-alone instrument with DIN connection	1	9.920 090	99,99	88,99
pH 7110 SET 2	Instrument incl. SenTix® 41, buffer 4.7 / 10.01 and 3 mol/l KCl	1	9.920 091	99,99	88,99
pH 7110 SET 4	Instrument incl. SenTix® 81, buffer 4.7 / 10.01 and 3 mol/l KCl	1	9.920 092	99,99	88,99

Conductivity Pocket Tester Elite CTS Pin/Cup



thermo scientific

The Elite CTS pocket tester simultaneously displays conductivity/TDS/salinity with temperature. With leakproof, transparent wide-base cap for upright standing with 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 μ S/cm KCl and 5 x 2764 μ S/cm KCl)

Specifications

Conductivity range: 0.0 μ S ... 20.00 mS
 TDS range: 0.0 ... 10000 ppm
 Salinity range: 0 ... 10000 ppm
 Resolution: 100 ppm
 Temperature range: 0 ... 60.0 °C
 Resolution: 0.1 °C
 Operating temperature: 5 ... 45 °C
 Relative humidity: 5 ... 85 %, non-condensing
 Temperature compensation: ATC
 Power supply: 4 x AAA 1.5 V batteries
 IP code: IP 67

-99%

Type	PK	Cat. No.	Price	Now
Elite CTS Pin	1	6.290 132	99,99	88,99
Elite CTS Pin Kit	1	6.290 138	99,99	88,99
Elite CTS Cup	1	6.290 133	99,99	88,99
Elite CTS Cup Kit	1	6.290 139	99,99	88,99

pH meter FiveGo™ F2

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 °C
 Resolution: 0.1 °C

-99%

Type	PK	Cat. No.	Price	Now
F2-Meter	1	6.280 111	99,99	88,99
F2-Standard kit	1	6.280 112	99,99	88,99



F2-Standard kit



Disposable scoops SteriPlast®, PS



White. The scoops are also available with 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

-99%

Capacity	Length	PK	Cat. No.	Price	Now
ml	mm			EUR	EUR
25	141	10	6.265 037	99,99	88,99
50	160	10	6.265 039	99,99	88,99
100	205	10	6.265 041	99,99	88,99
150	216	10	6.265 043	99,99	88,99
250	232	10	6.269 512	99,99	88,99
500	280	10	6.269 514	99,99	88,99
500	283	10	6.269 515	99,99	88,99
1000	332	10	6.284 542	99,99	88,99
2000	381	10	4.680 855	99,99	88,99

Disposable spoons SteriPlast®, PS



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

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

-99%

Capacity	Length	PK	Cat. No.	Price	Now
ml	mm			EUR	EUR
2.5	127	100	6.265 045	99,99	88,99
10	170	100	6.265 046	99,99	88,99

Vampire Sampler



The self-priming peristaltic pump is also suitable for dirty or particle-containing substances with a viscosity of max. 500 mPas. Ideal for sampling from barrels, tanks, wells, water separators, waste water 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

-99%

Type	PK	Cat. No.	Price	Now
			EUR	EUR
Vampire sampler, complete	1	9.303 851	99,99	88,99

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 original safety ring ensures unadulterated sample transport.

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

-99%

Length	PK	Cat. No.	Price	Now
mm			EUR	EUR
1000	1	9.303 940	99,99	88,99

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 product according to EC Directive No. 10/2011

-99%

Nominal capacity	Grad.	PK	Cat. No.	Price	Now
ml	ml			EUR	EUR
75	10	1	9.141 000	99,99	88,99
125	20	1	9.141 001	99,99	88,99
250	50	1	9.141 002	99,99	88,99
500	100	1	9.141 003	99,99	88,99
1000	200	1	9.141 004	99,99	88,99

Mortars only, porcelain



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

-99%

Capacity	Int. diam.	Height	PK	Cat. No.	Price	Now
ml	mm	mm			EUR	EUR
70	65	40	1	9.164 206	99,99	88,99
170	90	55	1	9.164 209	99,99	88,99
400	130	65	1	9.164 212	99,99	88,99
700	150	70	1	9.164 215	99,99	88,99
1000	180	80	1	9.164 218	99,99	88,99

Pestles only, porcelain



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

-99%

Head diam.	Length	Nominal diam.	PK	Cat. No.	Price	Now
mm	mm	mm			EUR	EUR
24	115	50 / 63	1	9.164 306	99,99	88,99
30	135	90	1	9.164 309	99,99	88,99
36	150	125	1	9.164 312	99,99	88,99
42	175	150	1	9.164 315	99,99	88,99
55	210	180	1	9.164 318	99,99	88,99

Nominal size = mortar internal diameter

Laboratory Blender Waring® 8010/8011



8011EG

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.

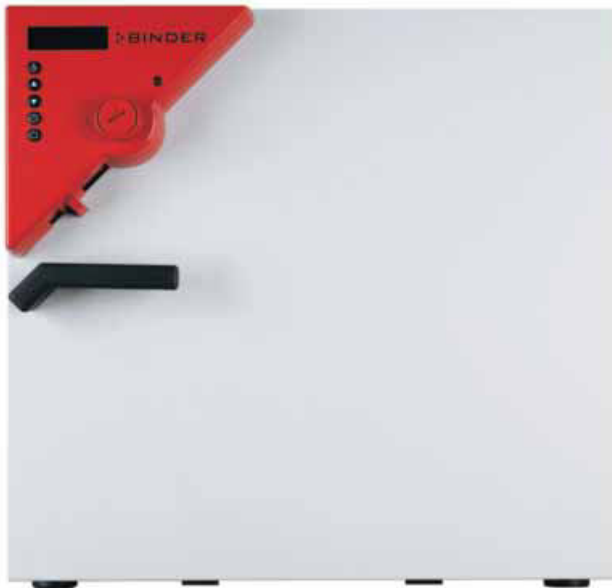
- Two velocity settings (18000 or 22000 rpm)
- Epoxy coated motor housing
- Two-piece lid vinyl/styrene

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

-99%

Type	With	PK	Cat. No.	Price	Now
				EUR	EUR
8011EG	Glass container, 1.2 l	1	6.284 693	99,99	88,99
8011ES	Stainless steel container, 1 l	1	6.284 694	99,99	88,99

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
- Optional RS 422 Interface for APT-COM™ Data Control System communication software

-99%

Nom. capacity	Max. grids	Included grids	External dimensions (W x D x H) mm	PK	Cat. No.	Price EUR	Now EUR
L	4	2	435 x 520 x 495	1	9.883 529	99,99	88,99

Peltier-recirculating chiller TE 400



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" for lower cooling power requirements significantly reduces the noise level.

- 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

-99%

Type	PK	Cat. No.	Price EUR	Now EUR
TE 400	1	6.492 490	99,99	88,99

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.

-99%

Length gauntlet mm	Overall length mm	PK	Cat. No.	Price EUR	Now EUR
130	330	1	9.005 271	99,99	88,99
280	470	1	9.005 272	99,99	88,99

Cryo Protection Gloves CRYOKIT 400

EN 511 EN 388 EN 420

 2422

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 porette membrane.

According to normative EN 511, EN 420, EN 388, Cat III. Warning: Not intended for immersion in liquid nitrogen or other liquid cryogens. 1 pair per pack

-99%

Size	Length	PK	Cat. No.	Price	Now
	mm			EUR	EUR
7	400	1	6.270 632	99,99	88,99
8	400	1	6.270 633	99,99	88,99
9	400	1	6.270 634	99,99	88,99
10	400	1	6.270 635	99,99	88,99
11	400	1	6.270 636	99,99	88,99

LLG-Cryotubes, PP, sterile



With star-shape in the screw cap, for automated capper/decapper. Temperature resistant 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.

-99%

Capacity	Description	Thread	PK	Cat. No.	Price	Now
ml					EUR	EUR
1.2	Self-standing	External	100	9.401 160	99,99	88,99
1.2	Self-standing	Internal	100	9.401 161	99,99	88,99
2.0	Self-standing	External	100	9.401 162	99,99	88,99
2.0	Self-standing	Internal	100	9.401 163	99,99	88,99
2.0	Without ring	External	100	9.401 164	99,99	88,99
2.0	Without ring	Internal	100	9.401 165	99,99	88,99
5.0	Self-standing	External	100	9.401 166	99,99	88,99
5.0	Without ring	Internal	100	9.401 167	99,99	88,99
5.0	Self-standing	Internal	100	9.401 168	99,99	88,99

Cryogenic vial racks, PC



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

-99%

Volume	Array	For tubes diam.	PK	Cat. No.	Price	Now
litres		mm			EUR	EUR
2 ... 5	50	12.9	4	6.238 908	99,99	88,99

Cooled incubators FOC series



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

-99%

Type	Nom. capacity	Included grids	External dimensions (W x D x H) mm	PK	Cat. No.	Price	Now
						EUR	EUR
FOC 120E	109	2	540 x 550 x 912	1	6.316 555	99,99	88,99
FOC 200E	169	3	540 x 550 x 1263	1	6.316 556	99,99	88,99

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. Set consisting of 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

-99%

Type	PK	Cat. No.	Price	Now
			EUR	EUR
Grippers	2	6.492 241	99,99	88,99

Ultrasonic cleaning units Elmasonic Select



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 mode 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

-99%

Type	Capacity of the bath litres	External dimensions (W x D x H) mm	PK	Cat. No.	Price EUR	Now EUR
Select 30	2,7	305 x 170 x 230	1	6.321 722	99,99	88,99
Select 40	3,9	305 x 170 x 280	1	4.684 652	99,99	88,99
Select 60	5,9	370 x 210 x 275	1	4.684 653	99,99	88,99
Select 80	9,3	570 x 195 x 280	1	4.684 654	99,99	88,99
Select 100	9,5	380 x 300 x 280	1	4.684 655	99,99	88,99
Select 120	12,9	380 x 300 x 330	1	4.684 656	99,99	88,99
Select 300	27,5	575 x 360 x 330	1	4.684 659	99,99	88,99

Insert baskets for ultra sonic cleaning units Elmasonic Select



Aperture size:
11x15/10x10 mm

-99%

For bath type	Dimensions (W x D x H) mm	Max. load kg	PK	Cat. No.	Price EUR	Now EUR
Select 30	195 x 105 x 50	1	1	4.688 713	99,99	88,99
Select 40	195 x 105 x 95	3	1	4.688 714	99,99	88,99
Select 60	255 x 105 x 95	5	1	4.688 715	99,99	88,99
Select 80	455 x 105 x 55	5	1	4.688 716	99,99	88,99
Select 100	250 x 195 x 90	6	1	4.688 717	99,99	88,99
Select 120	250 x 195 x 135	7	1	4.688 718	99,99	88,99

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



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

- White graduation and labelling field
- GL thread

-99%

Capacity	Thread	PK	Cat. No.	Price EUR	Now EUR
100	32	2	4.686 198	99,99	88,99
250	32	2	4.686 199	99,99	88,99
500	32	2	4.686 200	99,99	88,99
1000	32	1	4.686 201	99,99	88,99

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.

-99%

For flasks	Int. diam.	PK	Cat. No.	Price EUR	Now EUR
100 ... 500	48	1	4.682 062	99,99	88,99
250 ... 1000	56	1	4.682 063	99,99	88,99
500 ... 2000	61	1	4.682 064	99,99	88,99
1000 ... 4000	74	1	4.682 065	99,99	88,99

Bunsen burner with needle valve



DIN 30665. Air regulation, pilot flame.

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

-99%

Type	Height	Weight	PK	Cat. No.	Price	Now
	mm	g			EUR	EUR
Natural with needle valve	155	220	1	9.018 365	99,99	88,99
Propane with needle valve	155	220	1	9.018 366	99,99	88,99

Teclu burners with needle valve



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

-99%

Type	Height	Weight	PK	Cat. No.	Price	Now
	mm	g			EUR	EUR
Natural	155	260	1	9.018 375	99,99	88,99
Propane	155	260	1	9.018 376	99,99	88,99

Tripod stand

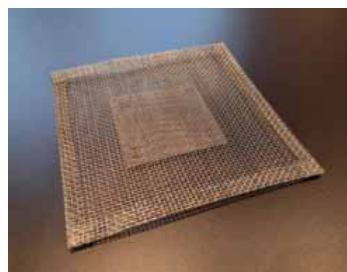


Zinc-plated steel. With circular top and flared legs.
Zinc plating of tripod stands serves as temporary corrosion protection.
May peel off after direct contact with open burner flame.

-99%

Diam.	Height	PK	Cat. No.	Price	Now
mm	mm			EUR	EUR
100	180	1	9.034 110	99,99	88,99
120	210	1	9.034 112	99,99	88,99
120	250	1	6.200 910	99,99	88,99
120	260	1	6.234 831	99,99	88,99
140	220	1	9.034 114	99,99	88,99
160	230	1	6.059 957	99,99	88,99

Wire gauzes, steel, galvanised



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

-99%

Dimensions (D x W)	PK	Cat. No.	Price	Now
mm			EUR	EUR
155 x 155	1	4.688 237	99,99	88,99
195 x 195	1	4.688 238	99,99	88,99

Electric arc lighter



Lighter for lighting Bunsen and gas burners with an electrically generated arc. As 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

-99%

Description	Dimensions (W x D x H)	PK	Cat. No.	Price	Now
	mm			EUR	EUR
Electric arc lighter	192 x 26 x 19	1	6.492 358	99,99	88,99
Electric arc lighter with flexible neck	219 x 26 x 18	1	6.492 359	99,99	88,99

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 magnet for easy fixing. Battery LR 44 inclusive.

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

-99%

Type	PK	Cat. No.	Price	Now
LLG-Short period timer with alarm	1	9.260 150	EUR 99,99	EUR 88,99

Stopwatch, digital



1/100 seconds, split time, clock, date with weekday, hourly chime, alarm with snooze function, lanyard.
Measuring range: Time up to 23h, 59min, 59sec. Dimensions (W x H x D): 65 x 79 x 21mm, weight: 50g, incl. 1x 1.5V LR44 battery, EK-EL

-99%

Type	PK	Cat. No.	Price	Now
Stopwatch	1	9.851 018	EUR 99,99	EUR 88,99

Digital Thermo-/Hygrometer EXACTO



For monitoring temperature and humidity. With 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

-99%

Type	PK	Cat. No.	Price	Now
EXACTO	1	4.670 846	EUR 99,99	EUR 88,99

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): 69mm x 48mm x 22mm

-99%

Type	PK	Cat. No.	Price	Now
EBI 20-TH1-Set	1	9.908 074	EUR 99,99	EUR 88,99

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

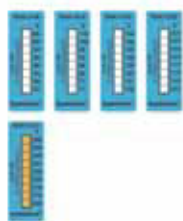
Specifications

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

-99%

Type	PK	Cat. No.	Price	Now
			EUR	EUR
Traceable® Excursion-Trac with 1 insertion probe	1	4.687 369	99,99	88,99

8-step irreversible temperature strips testoterm®



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

-99%

Measuring range °C	PK	Cat. No.	Price	Now
			EUR	EUR
37 ... 65	10	9.246 002	99,99	88,99
71 ... 110	10	9.246 003	99,99	88,99
116 ... 154	10	9.246 004	99,99	88,99
161 ... 204	10	9.246 005	99,99	88,99
204 ... 260	10	9.246 006	99,99	88,99

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	-50 ... +300 °C
TFX 410:	±0.3 °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

-99%

Type	Description	PK	Cat. No.	Price	Now
				EUR	EUR
TFX 410	Laboratory thermometer with assigned probe	1	6.206 350	99,99	88,99
TFX 410-1	Laboratory thermometer (without probe)	1	6.207 171	99,99	88,99
TFX 410-1 + TPX 200	Laboratory thermometer with probe without cable	1	6.205 687	99,99	88,99
TFX 410-1 + TPX 400	Laboratory thermometer with probe with tip and 60 cm cable	1	6.205 686	99,99	88,99
TFX 410-1 + TPX 400-150	Laboratory thermometer with probe with tip and 150 cm cable	1	6.243 018	99,99	88,99

LLG- General-purpose thermometers, red filling



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

-99%

Measuring range °C	Length	Diam.	PK	Cat. No.	Price	Now
	mm	mm			EUR	EUR
-10/0 ... 50	200	7 ... 8	1	9.235 245	99,99	88,99
-10/0 ... 100	260	7 ... 8	1	9.235 250	99,99	88,99
-10/0 ... 150	260	7 ... 8	1	9.235 255	99,99	88,99
-10/0 ... 200*	300	7 ... 8	1	9.235 260	99,99	88,99
-10/0 ... 250*	300	7 ... 8	1	9.235 265	99,99	88,99

* 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



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 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
Warranty:	3 years

-99%

Type	Plug type	PK	Cat. No.	Price	Now
				EUR	EUR
LLG-uniSTIRRER 3 pro	EU	1	6.263 400	99,99	88,99
LLG-uniSTIRRER 3 pro	UK	1	6.263 401	99,99	88,99

Magnetic stirring bar behrotest, set 1



Magnetic stirring bars behrotest®, Set 1 in a transparent box with 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

-99%

Description	PK	Cat. No.	Price	Now
			EUR	EUR
MS-Set 1	1	6.267 317	99,99	88,99

Magnetic stirrer TWISTER



Set 1



Set 2

Without heating. The TWISTER is a universal and particularly compact mixer with magnetic drive. The mixing positions can be controlled either 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 round

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

-99%

Type	Stirring capacity	PK	Cat. No.	Price	Now
	l			EUR	EUR
TWISTER Set 1	5	1	4.685 997	99,99	88,99
TWISTER Set 2	10	1	4.685 998	99,99	88,99

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 min ⁻¹
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

-99%

Type	PK	Cat. No.	Price	Now
			EUR	EUR
MST Digital	1	4.666 683	99,99	88,99

Rocking shakers Duomax 1030



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 analog 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

-99%

Type	Inclination angle	PK	Cat. No.	Price	Now
	°			EUR	EUR
Duomax 1030	5	1	9.839 855	99,99	88,99
Duomax 1030	10	1	9.839 856	99,99	88,99

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

-99%

Type	Plug type	PK	Cat. No.	Price	Now
				EUR	EUR
VORTEX 2	EU	1	7.971 443	99,99	88,99
VORTEX 2	UK	1	6.317 556	99,99	88,99
VORTEX 2	CH	1	6.492 282	99,99	88,99

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 and freezable to -80 °C
- Pyrogen free
- DNase/RNase-free
- Aseptically, bulk pack



-99%

Capacity	Form	Height	Diam.	PK	Cat. No.	Price	Now
ml		mm	mm			EUR	EUR
15	conical	119.6	17	500	6.270 403	99,99	88,99
50	conical	113.9	30	500	6.270 404	99,99	88,99
50	with rim	116.5	30	500	6.270 405	99,99	88,99



Precision balances Entris® II, LLG Premium Line



SARTORIUS



The evolution of the Entris® balance series. The large portfolio offers the right model for every weighing task. With many convenience 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
- Weighing platform made of stainless steel
- Excellent readability and operability with 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

-99%

Type	Capacity	PK	Cat. No.	Price	Now
	g			EUR	EUR
BCE622i-1S	620	1	4.669 160	99,99	88,99
BCE822i-1S	820	1	4.669 184	99,99	88,99
BCE2202i-1S	2200	1	4.669 120	99,99	88,99
BCE3202i-1S	3200	1	4.669 132	99,99	88,99
BCE4202i-1S	4200	1	4.669 140	99,99	88,99
BCE6202i-1S	6200	1	4.669 156	99,99	88,99

LLG-Sample dishes, Aluminium



High quality aluminium sample dishes, for moisture determination.

-99%

Description	Diam.	Height	PK	Cat. No.	Price	Now
	mm	mm			EUR	EUR
Sample dishes	90	7	80	6.282 670	99,99	88,99
Sample dishes	100	7	80	6.265 408	99,99	88,99
Sample dishes with rim	100	7	80	6.281 537	99,99	88,99

Analytical balance Type ACJ



The bestseller in analytical balances, now with 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 recipeweighing and documenting with a combined tare/print function
- Large LCD display, digit height 14 mm

A DAkkS calibration with 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 325mm
 Dimensions weighing space (W x D x H): 174 x 162 x 227mm
 Permissible ambient temperature: 10°C/30°C
 Net weight: approx. 6kg

-99%

Type	Capacity	PK	Cat. No.	Price	Now
	g			EUR	EUR
ACJ 80-4M	82	1	4.680 329	99,99	88,99
ACJ 100-4M	120	1	6.316 869	99,99	88,99
ACJ 200-4M	220	1	4.680 330	99,99	88,99
ACJ 300-4M	320	1	6.314 246	99,99	88,99

Halogen Moisture Analyser DBS 60-3



Modern moisture analyser with 10 memories and graphic display

- Halogen quartz glass heater 400 W
- Backlit LCD display, 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 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

-99%

Type	PK	Cat. No.	Price	Now
			EUR	EUR
DBS 60-3	1	9.901 441	99,99	88,99

Mikrocentrifuge Frontier™ FC5513-K



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

- Backlit, two-lined LCD display
- Powerfull 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

-99%

Type	PK	Cat. No.	Price	Now
FC5513-K	1	6.323 158	99,99	88,99

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

-99%

Form	Volume	Max.	PK	Cat. No.	Price	Now
	ml	rcf			EUR	EUR
conical	0.5	20000	1000	9.409 023	99,99	88,99
conical	1.5	25000	1000	9.409 024	99,99	88,99
round	2.0	25000	1000	9.409 025	99,99	88,99

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



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-strips.

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

-99%

Description	Plug type	PK	Cat. No.	Price	Now
LLG-uniCFUGE 2 with universal rotor	EU	1	6.263 510	99,99	88,99
LLG-uniCFUGE 2 with universal rotor	UK	1	6.263 511	99,99	88,99
LLG-uniCFUGE 2/5 with rotor for 5 ml tubes	EU	1	6.263 515	99,99	88,99
LLG-uniCFUGE 2/5 with rotor for 5 ml tubes	UK	1	6.263 516	99,99	88,99

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

-99%

Capacity	PK	Cat. No.	Price	Now
ml			EUR	EUR
5	200	6.322 888	99,99	88,99

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 in accordance with the application.

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

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 EUR	Now EUR
N96	7	130	75 x 156 x 119	1.3	1	4.672 374	99,99	88,99

-99%