S.A.I.N.T Tech
Security Analytics Industry Nano Technics

LABORTOPS
valid until 31.12.2022

LLG-Pipette controller *easy*

NEW

- **Ergonomic design**
- **Smooth control**
- **Up to 8 h autonomy**

LLG
LABWARE

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Single channel microliter pipettes LLG-pro*MLP*

- High quality **Made in France**
- 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
- **Tip ejector button*, adjustable for right- and left-handed users**
- Completely autoclavable at 121 °C
- Including individual calibration certificate (according to EN ISO 8655)

*not available for 5 ml and 10 ml pipettes
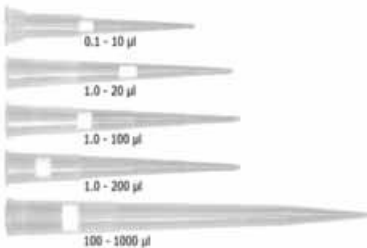
Scope of supply: microliter pipette, calibration tool

- **Quality Made in France**
- **Fatigue-free pipetting**
- **Adjustable tip eject button**

Capacity	Increments	Accuracy max. vol.	Precision max. vol.	Colour code	PK	Cat. No.	Price
µl	µl	(± R%)	(≤ CV%)				EUR
0.2-2	0.002	1.65	0.75	dark orange	1	6.270 420	**133,60**
0.5-10	0.02	1.10	0.44	red	1	6.270 421	**133,60**
2-20	0.02	1.00	0.33	light yellow	1	6.270 422	**133,60**
10-100	0.2	0.80	0.17	light orange	1	6.270 423	**133,60**
20-200	0.2	0.80	0.17	dark yellow	1	6.270 424	**133,60**
100-1000	2	0.80	0.17	dark blue	1	6.270 425	**133,60**
500-5000	2	0.66	0.18	purple	1	6.270 426	**133,60**
1000-10000	20	0.60	0.18	light blue	1	6.270 427	**133,60**

LLG-Pipette carousel, ABS

LLG-Pipette carousel made of ABS for safe and comfortable storage of microlitre pipettes. Rotating stand allows quick access to the desired pipette.

- Space-saving storage of up to 6 single channel or multi-channel pipettes
- Suitable for common pipette brands of BRAND, GILSON®, Eppendorf®, Thermo Fisher Scientific and RAININ
- Easy to clean

Description	PK	Cat. No.	Price
			EUR
LLG-Pipette carousel	1	6.490 522	**59,20**

LLG-Filter tips 2.0 Low Retention, PP

The new generation of LLG Labware filter tips with low liquid retention. Available in easy-to-open boxes with color coded racks. 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
- Graduated
- Sterile
- DNase and RNase free

Colour	Capacity	Package contents	PK	Cat. No.	Price
	µl				EUR
Clear	0.1 ... 10	10 x 96	960	4.668 784	**54,60**
Clear	0.1 ... 10 *	10 x 96	960	4.668 785	**54,60**
Clear	1 ... 20	10 x 96	960	4.668 786	**54,60**
Clear	1 ... 100	10 x 96	960	4.668 787	**54,60**
Clear	1 ... 200	10 x 96	960	4.668 788	**54,60**
Clear	100 ... 1000	8 x 96	768	4.668 789	**52,60**

* Tip XL

You can find our complete range on our website.

LLG-Pipette controller *easy*

- **Intuitive operation**
- **Autoclavable cone tip**
- **Eco-friendly rechargeable NiMH batteries**

The LLG-Pipette controller *easy* enables fast and exact pipetting with glass and plastic pipettes.

- Ergonomic and lightweight construction for constant ease of use over prolonged usage
- Unique nose cone angle for enhanced flexibility in operation e.g. in fume hoods
- Eco-friendly rechargeable NiMH batteries, offering up to 8 hours of continuous working
- Easily replaceable batteries
- Autoclavable tip cone for avoiding cross-contamination

Scope of supply: Pipette controller, manual, charger, wall-mount, desktop stand

Description	Plug type	PK	Cat. No.	Price
				EUR
LLG-Pipette controller *easy*	EU	1	6.263 683	126,90
LLG-Pipette controller *easy*	UK	1	6.263 684	126,90

LLG-Serological pipettes, PS, sterile

All LLG serological pipettes are plugged, sterile, pyrogen-free and have an increased volume capacity through extra graduations.

- 1 ml, 5 ml, 10 ml, 25 ml and 50 ml pipettes contain a bi-directional secondary graduation scale for precise dosing
- Colour coded ringmark for easy volume identification
- Single packed in easy-to-open plastic/paper packaging

Volume	Grad.	Colour code	Negative graduations	PK	Cat. No.	Price
ml	ml					EUR
1	1/100	yellow	0.3	500	9.380 440	51,10
2	1/50	green	0.6	500	9.380 441	61,30
5	1/10	blue	3	200	7.930 401	28,60
10	1/10	orange	3	200	6.268 240	32,70
10	1/10	orange (wide mouth)	3	200	9.380 442	40,90
25	2/10	red	8	150	7.930 403	46,00
50	5/10	purple	10	100	9.380 443	51,10

Pipette stand, vertical, PP

The pipette carousel can be rotated 360° and can hold up to 94 pipettes.

Type	PK	Cat. No.	Price
			EUR
Pipette stand, vertical	1	9.273 895	15,10

Pipette tray, PVC

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

Width	Length	Height	PK	Cat. No.	Price
mm	mm	mm			EUR
300	426	30	1	9.200 394	20,00

Aluminium bottles, with UN approval

The aluminium bottle is particularly suited for storing, transport or sending substances and reference samples which have to be stored completely unaltered.

- With UN approval
- Pure aluminium (AL 99.5 material)
- PP screw cap with internal aluminium seal included

Description	Capacity	Diam.	Height		PK	Cat. No.	Price
	ml	mm	mm				EUR
Bottle	60	40	88		10	6.291 403	**20,40**
Bottle	120	57	97		10	6.291 404	**24,80**
Bottle	300	57	160		10	6.291 405	**32,70**
Bottle	600	74	192		10	6.291 406	**47,40**
Bottle	1200	88	248		10	6.291 407	**56,50**

Laboratory bottles, Borosilicate glass 3.3, GL45, with retrace code

DIN 168 - 1. EN ISO 4796-1. With graduations and retrace code, pouring ring, PP screw cap with ISO thread.
Certificates are available on request.

Capacity	Ext. diam.	Height		PK	Cat. No.	Price
ml	mm	mm				EUR
100	56	100		10	9.072 331	**17,10**
250	70	138		10	9.072 332	**20,60**
500	86	176		10	9.072 334	**27,90**
1000	101	225		10	9.072 335	**41,50**
2000	136	260		10	9.072 336	**88,80**

Pressure atomizer LaboPlast®, HDPE

The pressure sprayer is ideal to spray a wide range of liquids uniformly. The pressurised spray has a working pressure of 4 bar.
Extension for spray lance 30 cm available as accessory.

- Wetted parts PE, PP, glass-fibre reinforced PA, V2A, FKM
- Bottle made of HDPE
- With short spray nozzle
- Left-handed and right-handed pistol control
- Adjustable spray jet
- Graduation up to 1500 ml
- Temperature max. 30 °C

Capacity	Ext. diam.	Neck diam.	Height		PK	Cat. No.	Price
ml	mm	mm	mm				EUR
1500	142	45	315		1	9.223 162	**39,60**

Jars, PP with PP screw cap

White, complete with red PP screw cap, in safe pack with certificate of analysis.

Nominal capacity	Ø with Cover	Height		PK	Cat. No.	Price
ml	mm	mm				EUR
25	34	40		25	7.077 661	**9,20**
60	41	56		25	6.254 446	**10,70**
90	56	52		25	7.077 852	**15,90**
125	56	68		25	7.085 372	**18,40**
250	73	79		20	7.053 933	**20,90**
625	96	113		6	7.051 092	**10,50**
1000	112	129		3	7.052 895	**7,10**
1250	112	159		3	7.053 930	**10,40**

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. The dosing device allows precise dosage via the pushbutton or via the micro-screw as well as precise dispensing via a fine spout tip.

- With splinter protection
- 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

Capacity	Grad.	Tolerance	Height		PK	Cat. No.	Price
ml	ml	± ml	mm				EUR
15	0.1	0,045	520		1	6.280 403	69,10
25	0.1	0,075	650		1	6.280 404	69,10
50	0.1	0,075	920		1	6.280 405	78,10

Burettes with straight cock, Borosilicate glass 3.3, class AS, DE-M marking

BLAUBRAND®, DE-M marking, removable PTFE stopcock. DIN EN ISO 385. Calibrated to deliver (TD, Ex). Burette tube with Schellbach stripe, stopcock with precision tip. Incl. one batch certificate.

Capacity	Grad.	Length	Tolerance		PK	Cat. No.	Price
ml	ml	mm	± ml				EUR
10	0.02	795	0.02		1	4.000 014	55,30
25	0.05	800	0.03		1	7.617 437	55,30
50	0.1	800	0.05		1	4.000 015	55,30

Bottletop Dispenser LLG-uniTOPDISPENS 2

- Springless PTFE valve, PTFE piston with chemically resistant ETP
  O-ring enables **high chemical compatibility**
- Glass cylinder from borosilicate glass 3.3
- Re-circulation valve enables easy priming and bubble free dispensing
- 360° rotation possible due to specially designed bottle adapter
- Flexible and adjustable delivery nozzle provides **dispensing angle flexibility** to the user
- Specially designed volume adjustment knob for quick and easy volume setting
- **The telescopic extractable intake tube can be easily adjusted to varying bottle heights**
- Five bottle adaptors 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 in accordance with ISO 8655 standards and each unit is supplied with an individual calibration certificate
- You can find the appropriate compatibility list on www.llg-labware.com in the Downloads section

Volume	Graduations	Accuracy max. vol.	Precision max. vol.		PK	Cat. No.	Price
ml	ml	(± R%)	(≤ CV%)				EUR
0.25 - 2.5	0.05	0.6	0.2		1	6.282 275	125,60
0.5 - 5	0.1	0.6	0.2		1	6.282 276	125,60
1 - 10	0.2	0.6	0.2		1	6.282 277	125,60
2.5 - 30	0.5	0.6	0.2		1	6.282 278	146,50
5 - 60	1.0	0.6	0.2		1	6.282 279	146,50
10 - 100	2.0	0.6	0.2		1	6.282 280	178,70

LLG-Surface protector DescProtect

DescProtect is a durable paper which quickly absorbs liquid spills. The PE-coated base layer stops liquids reaching the work surface.

- Stays flat, does not ripple or curl to de-stabilise vessels
- White surface can be written on using pens or pencils
- Rapid absorption of liquid spills

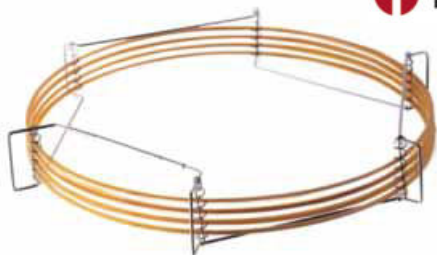| Type	Size		PK	Cat. No.	Price
					EUR
Sheets	460 mm x 570 mm		50	9.160 270	33,60
Spool	400 mm x 50 m		1	9.160 271	68,60

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

2in1 KITs contain 100 vials (1.5 ml) and 100 closures in an orange 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.

Description	Cover type	PK	Cat. No.	Price EUR
clear	Short Thread Cap, blue, hole, Silicon white / PTFE red	100	9.003 560	27,60
clear	Short Thread Cap, blue, hole, Silicon white / PTFE blue, slitted	100	7.621 765	35,70
clear	Short Thread Cap, transparent, hole, Silicon white / PTFE red	100	9.003 561	26,80
clear, labelling field	UltraClean Short Thread Cap, blue, hole, Silicon white / PFE red	100	7.970 892	28,10

Capillary columns

BP5MS

5 % Phenyl Polysilphenylene-siloxane. For 5 % GC-MS analysis and general purpose MS analysis. Suitable replacement for: DB-5ms, ZB-5ms, Rxi-5Sil MS, VF-5ms, CP-Sil 8 CB.

Int. diam. mm	Length m	Film thickness µm	Temp. range °C	PK	Cat. No.	Price EUR
0.25	30	0.25	-40 … 330 / 350	1	4.676 266	532,00

HT8/Fast PCB

8 % Phenyl Polycarborane-siloxane. Ultra high temperature columns for polychlorinated biphenyl compounds (PCB), nitro-substituted aromatics, polynuclear aromatic hydrocarbons, pesticides and herbicides.

Int. diam. mm	Length m	Film thickness µm	Temp. range °C	Type	PK	Cat. No.	Price EUR
0.10	10	0.10	-20 … 360 / 370	Fast PCB	1	6.233 627	316,90
0.22	25	0.25	-20 … 360 / 370	HT8	1	6.205 318	610,00
0.25	30	0.25	-20 … 360 / 370	HT8	1	6.207 027	610,00
0.25	60	0.25	-20 … 360 / 370	HT8-PCB GC	1	4.676 265	1.073,30

HPLC Starter Kits Generation 2.0, GL 45

Kit 3

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

Contents of the different sets:
HPLC SafetySet 1: 3 x SafetyCaps I (V 2.0), 1 x SafetyCap II (V 2.0), 1 x blind plug UNF 1/4" 28G, 4 x air valve

HPLC SafetySet 2: 4 x SafetyCaps II (V 2.0), 4 x blind plug UNF 1/4" 28G, 4 x air valve

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

Type	PK	Cat. No.	Price EUR
HPLC safety set 1	1	4.669 378	224,70
HPLC safety set 2	1	4.669 379	239,10
HPLC safety set 3	1	4.678 694	273,50

Ferrules for Agilent GC and Perkin-Elmer GC

for Agilent GC   for Perkin-Elmer GC

High quality ferrules made of 100 % Graphite or 15 % Graphite/ 85 % Vespel.

Type A: 15 % Graphite/85 % Vespel
Type B: 15 % Graphite/85 % Vespel
Type C: 100 % Graphite

Type	Column ID mm	Ferrule ID mm	For	PK	Cat. No.	Price EUR
A	0.1 - 0.25	0.4	Agilent GC	10	6.223 558	69,90
A	0.32	0.5	Agilent GC	10	9.221 278	69,90
B	0.1 - 0.25	0.4	Agilent GC	10	6.088 109	62,00
B	0.32	0.5	Agilent GC	10	6.059 976	62,00
B	0.53	0.8	Agilent GC	10	6.059 977	62,00
C	0.1 - 0.32	0.5	Agilent GC	10	7.652 355	50,70
C	0.45 - 0.53	0.8	Agilent GC	10	9.221 280	50,70
C	0.1 - 0.32	0.5	Perkin-Elmer GC	10	9.221 284	50,70
C	0.45 - 0.53	0.8	Perkin-Elmer GC	10	9.221 285	50,70

LLG-Syringe filters *SPHEROS*, PVDF

Hydrophilic membrane for aqueous polar and light unpolar solutions. Very low protein binding, suitable for high flow rates. Ideal for use with biological macromolecules, water soluble oligomers and polymers. With female Luer-Lock inlet and male Luer-Slip outlet. Sterile products in individual hard blister packaging and dispenser box.

Filter diam.	Pore size	Housing	Sterile	PK	Cat. No.	Price
mm	µm					EUR
13	0.22	PP, blue	-	100	4.685 651	32,30
13	0.45	PP, blue	-	100	4.685 652	32,30
25	0.22	PP, blue	-	50	4.685 653	29,60
25	0.45	PP, blue	-	50	4.685 660	29,60
13	0.22	PP, blue	+	100	4.685 654	38,10
13	0.45	PP, blue	+	100	4.685 655	38,10
25	0.22	PP, blue	+	45	4.685 656	29,40
25	0.45	PP, blue	+	45	4.685 657	29,40

Syringe filter Minisart® RC

SARTORIUS

Male Luer Slip. Housing PP. Regenerated cellulose (RC). Ready-to-use units with a hydrophilic, solvent-resistant membrane made of regenerated cellulose, making sample preparation quick and easy. Suitable for aqueous/organic solutions.

Filter diam.	Pore size	Colour	Sterile	PK	Cat. No.	Price
mm	µm					EUR
25	0.20	White, Printed	+	50	7.076 270	93,00
25	0.20	White, Printed	-	50	9.049 094	70,40
25	0.20	White, Printed	-	500	9.049 095	614,30
25	0.45	White, Printed	-	50	9.049 097	70,40
25	0.45	White, Printed	-	500	9.049 098	614,30
15	0.20	White, Printed	+	50	7.075 954	70,40
15	0.20	White, Printed	-	500	9.049 088	499,60
15	0.45	White, Printed	-	50	9.049 091	77,30
4	0.20	Blue Tray	-	50	9.049 081	52,40
4	0.45	Yellow Tray	-	50	9.049 084	52,40

LLG-Disposable syringes, 3-parts, PP, non-sterile, bulk

- Barrel: PP, Plunger: PP and Polyisoprene rubber
- Latex-free, pyrogen-free, DEHP-free, non-toxic
- Suitable for all syringe filters with Luer connection
- Non-sterile, bulk packed in box of 500
- Luer-Lock according to DIN EN 1707
- Luer-Slip according to DIN EN 20594-1

Capacity	Nozzle type	PK	Cat. No.	Price
ml				EUR
2	Luer-Slip	500	6.267 267	18,70
5	Luer-Slip	500	6.267 268	20,60
10	Luer-Slip	500	6.267 269	31,90
20	Luer-Slip	500	6.267 270	52,70
2	Luer-Lock	500	6.286 616	18,80
5	Luer-Lock	500	6.286 617	20,80
10	Luer-Lock	500	6.286 618	32,10
20	Luer-Lock	500	6.286 619	51,10

LLG-Inline filters, PTFE

LLG-Inline filters with PP housing. The PTFE membrane is particularly suitable for filtration of aggressive chemicals, including acids and non-aqueous solutions. Also ideal for clarifying filtration of organic solutions, sterile filtration of gases, as well as sterile aeration and deaeration.

- Multiple autoclavable at 121 °C for 20 minutes at 2 bar, max. 3 cycles
- High throughput with low pressure drop
- For air and gases in both directions

Diam.	Pore size		PK	Cat. No.	Price
mm	µm				EUR
50	0.45		20	4.685 659	38,10

The 50 mm inline filter with it's ultra pure Polypropylene housing (ultrasonic welded) is designed to contain 47 mm membranes. The filter comes with 6-12 mm hose connectors (tapered) at the inlet and the outlet side.

- Hydrophobic PTFE diaphragm, polypropylene housing.
- Autoclavable at 121 °C for 20 minutes at 2 bar, max. 3 cycles
- Stepped tubing olive of 6-10 mm on both sides
- For air and gases in both directions
- Max. operating pressure 4.0 bar

Diam.	Pore size		PK	Cat. No.	Price
mm	µm				EUR
50	0.2		5	9.059 513	40,50

Life Science

AccuSeal Semi-Automated Plate Sealer

Labnet *Labnet International, Inc.*

- Accepts a wide range of microplates and heat seals
- User-friendly control system
- Large digital display shows all operating parameters
- Adjustable sealing temperature: 100 °C to 190 °C, or no heat
- Precise temperature, timing and pressure for consistent sealing

Specifications

Dimensions (W x D x H):	171 x 324 x 362 mm
Weight:	12 kg
Sealing Temperature:	Off, 100 to 190 °C (increments of 1.0 °C)
Temperature Accuracy:	±1.0 °C
Temperature Uniformity:	±1.0 °C
Sealing Time:	0.5 to 10 sec (incements of 0.1 sec)
Compatible Plate Materials:	PP (Polypropylene), PS (Polystyrene), PE (Polyethylene)
Compatible Plate Types:	Standard Assay Plates, Deep-Well Storage plates, PCR Plates (Non-Skirted, Semi-Skirted, Full-Skirted)
Maximum Plate Height:	45 mm
Compatible Sealing Film Types:	Foil Polypropylene laminate, Clear Polyester-polypropylene laminate, Clear polymer, Thin clear polymer, Foil-laminate, Foil

Type	Description	PK	Cat. No.	Price
				EUR
AccuSeal	includes adapters for standard and deepwell microplates, 230 V	1	9.595 290	**3.415,80**
AccuSeal	adapter for sealing PCR plates	1	9.595 291	**269,50**

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

Description	Capacity	PK	Cat. No.	Price
	µl			**EUR**
96 Well Plate, skirted	200	50	6.313 409	**168,50**
96 Well Plate, non-skirted	200	100	6.313 408	**199,70**
96 Well Plate, half skirted	200	50	6.313 394	**163,60**

Gel Documentation Workflow Kit gelLITE

Cleaver SCIENTIFIC

The starter package for working with agarose gels in the laboratory. It includes everything necessary from gel loading to gel documentation and quantification.
- Gel documentation system **gelLITE** with pre-focused camera and blue light converter screen. Acquisition and analysis software is already included licence-free
- Electrophoresis tank **multiSUB Midi** is an injection-moulded tank for up to 100 samples and each platinum electrode is recessed in a removable cassette to protect it from damage
- Power supply **PowerPro** can be operated in constant mode or programmed. Stores preset protocols for each Cleaver Scientific gel tank

Scope of supply: Gel documentation system gelLITE, electrophoresis tank multiSUB Midi DUO, power supply PowerPro 300, UV to blue light converter (21 x 26 cm), UV fluorescent ruler, UV gel scoop, agarose (100 g), DNA ladder (100 bp to 10 Kb), DNA staining reagent runSAFE (50 bp to 20 Kb), TAE running buffer (1 l)

Description	PK	Cat. No.	Price
			EUR
Gel Documentation Workflow Kit gelLITE	1	4.671 801	**6.191,70**

Plasmid Purification-Kits Hi-Speed MINI/MIDI Fast Ion

IBI SCIENTIFIC

For rapid and efficient extraction of plasmid DNA from bacterial cells. The method is based on a combination of alkaline lysis and RNase treatment to obtain a clear lysate with minimal genomic DNA and RNA contamination. The bound plasmid DNA is washed and finally eluted by adding a buffer.

Specifications	**Hi-Speed MINI/MIDI Fast Ion**
Method:	Spin column // Anion-Exchange
Sample size:	1 - 5 ml // 50 ml high-copy plasmid/ 100 ml low-copy plasmid
Binding capacity:	30 µg // 800 µg
Fragment size:	1 - 15 kb // 1 - 20 kb
Typical yield:	10- 30 µg // 200 - 800 µg
Operation Time:	<15 min. // <120 min.

Type	Description	For	PK	Cat. No.	Price
					EUR
Hi-Speed MINI	Spin column	100 preps	1	4.661 765	**116,40**
Hi-Speed MINI	Spin column	300 preps	1	4.661 767	**309,60**
MIDI Fast Ion	Gravity flow	25 preps	1	4.661 763	**237,60**

You can find our complete range on our website.

LLG-Petri dishes, PS

Produced under aseptic conditions in an ISO 6 cleanroom.
- With a smooth surface for an optimal distribution of the
  transport medium
- Stackable
- With or without vents
- Packed in sleeves of 10 dishes or 20 dishes
  (90 mm diam. dishes)

Ext. diam. mm	Description	Height approx. mm	PK	Cat. No.	Price EUR
90	with triple vents, aseptic	16	480	6.285 823	52,70
90	without vents, aseptic	16	480	6.285 824	52,70
90	with triple vents, sterile	16	480	6.285 816	60,70
90	without vents, sterile	16	480	6.285 817	60,70
60	with triple vents, sterile	14	1080	4.678 371	112,80
60	without vents, sterile	14	1080	4.678 372	112,80

LLG-Drigalski spatula, PS, sterile

For easy plating.Individually packed.

Diam. mm	Width mm	Length mm	PK	Cat. No.	Price EUR
4	51.5	174	100	6.251 768	8,60

Inoculating Turntable

The manually operated turntable allows smooth and even
rotation in both directions for easy and fast distribution of
bacteria on the Petri dish surface. Due to the double-sided
design, the turntable can accommodate Petri dishes from
60 to 150 mm in diameter. Non-slip stand.

Description	PK	Cat. No.	Price EUR
Inoculating Turntable	1	6.286 850	190,20

Incubator Lovibond® DI 10

Designed for the reliable incubation of dipslides in laboratories and field work.
- Low voltage, in-car operation possible
- Holds up to 12 dipslides or 10 quanti-discs
- Programmable incubation period setting
- Rapid heating times for fast testing

Scope of supply: Incubator incl. external 12 V universal power supply,
set of leads (UK, EU, US), 12 V in-car power adapter

Temperature range:	ambient +5 ... +40 °C (±0.5 °C)
Dimensions (W x D x H):	246 x 215 x 162 mm
Weight:	1.7 kg
Power supply:	110/220-240 V or 12 V

Type	PK	Cat. No.	Price EUR
Lovibond® DI 10	1	6.291 192	553,10
Dipslide-Holder	1	6.274 399	126,00

Microbiological rapid tests Lovibond® Dipslides

The Lovibond® Dipslides are designed to test liquids as well
as surfaces. These dual-sided Dipslides are available in a
wide range of different media types. They are ideal for use in
many applications including evaporative cooling towers,
closed water circuits, cutting fluids, food testing, and many
more.

Description	PK	Cat. No.	Price EUR
TTC/TTC for total viable count (TVC)	10	6.282 520	17,90
TTC/MALT for Yeast, Moulds, Fungi, TVC	10	6.282 521	17,90
TTC/ROSE for Yeast, Moulds, Fungi, TVC	10	6.282 522	17,90
TTC/MAC for coliforms, TVC	10	6.282 523	17,90
TTC/E.COLI for E. coli/coliforms, TVC	10	6.282 524	32,00
PDM/MAC for Pseudomonas species, coliforms	10	6.282 525	32,00
TTC/PDM for Pseudomonas species, TVC	10	6.282 526	32,00
SRB for Sulphate reducing bacteria	10	6.282 527	48,60
R2A/R2A - TTC for testing of potable water	10	6.282 529	17,90

You can find our complete range on our website.

Disposable liquid samplers, HDPE

They are cleanroom-manufactured, individually-packed and always ready-to-use.
For high viscosity-media up to 100000 mPas.

Type	Description	Capacity	Length		PK	Cat. No.	Price
		ml	mm				EUR
ViscoDispo	non-sterile	100	500		20	9.303 732	138,50
ViscoDispo	non-sterile	200	1000		20	9.303 734	169,90

Sampler ViscoSampler, PTFE/FEP

Highly transparent. Ultra-pure sampler with powerful suction for viscousmedia. Specially developed for viscous substances, such as slurries, silt, wet clay and soil samples, sediments, oils, emulsions and creams.
The suction flask sucks up and discharges the material. All surfaces are non-porous and crevice-free, preventing dirt accumulation. Only round-profile threads, suitable for food hygiene applications, are used. Allow easy dismantling and cleaning.

Nominal capacity	Length	Diam.	Material	PK	Cat. No.	Price
ml	mm	mm				EUR
160	600	32	PTFE/FEP	1	6.803 102	359,70
300	1000	32	PTFE/FEP	1	9.303 960	408,40
650	2000	32	PTFE/FEP	1	9.303 961	577,30

LLG-Sample containers, PS, with screw cap, sterile

With PE or /PP screw cap. Ideal for many applications as sample collection, transportation or storage.

- Non-cytotoxic
- EO sterilized
- 30 ml container with conical skirted bottom
- Ideal for small volume samples
- Leakproof-tested
- Unique leak tight cap ensures exceptional leak proof seal
- With plain label

Nominal capacity	Ø with Cover	Height	Material Lid	PK	Cat. No.	Price
ml	mm	mm				EUR
7	22	48	PP	700	6.265 646	88,90
30	30	90	PP	50	6.265 647	12,20
60	43	58	PE	60	6.265 648	18,30

Tubes, culture, Soda-lime glass, screw cap

schuett-biotec.de

Autoclavable. For culture growth, transport and storage. Complete with aluminium or plastic screw cap and rubber sealing gasket. The 5 ml size has a frosted marking area.

Further sizes available on request.

Diam.	Nominal capacity	Length		PK	Cat. No.	Price
mm	ml	mm				EUR
12	3	35		100	9.010 608	61,90
14	5	50		100	9.010 602	179,10
27	15	45		100	6.266 815	188,00
27	20	50		100	6.264 629	182,40
27	30	75		100	6.266 816	190,20
14	5	50		100	9.010 603	98,40
27	15	45		100	9.010 610	122,70
27	20	50		100	9.010 611	134,90
27	30	75		100	9.010 601	141,50

Spatula set, 14-pieces

Hammacher Instrumente

In zipper case, spatula attached with loops.
Containing:
- 2 Spoon spatula, 150, 180 mm
- 3 Micro-spatula, spoon 5 x 7 mm, 100, 150, 185 mm
- 3 Double spatula, rigid, 130, 150, 185 mm
- Micro-powder spatula, flexible, 150 mm
- Pharmacist spoon, double-ended, 170 mm
- Chemical spoon, double-sided, 150 mm
- Weighing spatula, 170 mm
- 2 Micro-double spatula, spoon-shaped, 130, 150 mm

Type	PK	Cat. No.	Price
			EUR
HSO 132-00	1	6.312 442	83,40

Chemist's large instrument set, 13-pieces

Hammacher Instrumente

In zipper case, instruments attached with loops.
Containing:
- 2 Micro-double spatula, flexible, 150 mm
- Spoon spatula, 150 mm
- Micro-spatula, 150 mm, spoon 5 x 7 mm
- Weighing spatula, 170 mm
- Micro-powder spatula, flexible, 150 mm
- Dissecting needle with plastic handle, 140 mm
- Pharmacist spoon, 150 mm
- Splinter forceps, curved, 105 mm
- Forceps, anatomical, 145 mm
- Forceps, pointed, 105 mm
- Scissors, pointed/pointed, 145 mm
- Microscope scissors, 115 mm

Type	PK	Cat. No.	Price
			EUR
HSO 131-00	1	6.312 441	91,10

Spatulas, PS

BRAND

Impact resistant polystyrol.
Available as double-ended flat spatula or one end flat
and the other with spoon.

Type	Length	PK	Cat. No.	Price
	mm			EUR
Double-ended	150	10	6.323 098	17,40
Double-ended	180	10	6.323 099	17,90
With spoon	180	10	6.323 100	18,70
With spoon	210	10	6.323 101	19,80

Forceps, stainless steel, anti-magnetic, anti-acid

4.668 564

4.668 572

ideal-tek

Form	Length	PK	Cat. No.	Price
	mm			EUR
Straight, strong, fine	110	1	4.668 564	16,50
Curved, fine	120	1	4.668 562	10,20
Curved, very fine	120	1	4.668 572	15,30
Straight, fine, blunt	150	1	4.668 571	16,50
Straight, strong, fine, Nickel plated, with guide-pin	155	1	4.668 563	14,90

Measuring jugs with handle, stainless steel, heavy duty

6.072 687

9.275 850

9.275 860

LABORBEDARF BOCHEM LAB SUPPLY

18/10 steel. Graduated 200 ml. With spout and handle,
straight* or conical shape.

Nominal capacity ml	Ext. diam. mm	Height mm	foot	PK	Cat. No.	Price EUR
500	90	125	-	1	6.072 687	21,80
1000 *	100	140	-	1	9.275 850	114,00
1000	125	140	-	1	7.400 857	24,30
2000 *	130	170	-	1	9.275 852	132,90
2000	140	170	-	1	6.204 504	39,40
500	115	115	+	1	9.275 860	14,50
1000	140	160	+	1	9.275 861	19,80
1500	150	160	+	1	9.275 862	33,30
2000	160	185	+	1	9.275 863	48,20

You can find our complete range on our website.

Chemical protective gloves AlphaTec® 58-128

EN 388   EN ISO 374-1 Type A   EN ISO 374-5

2121A   JKLOPT   VIRUS

Ansell

- Chemical protection glove with ergonomics certificate
- Palm with profile for better grip
- Anatomical fit for natural movements
- Good finger dexterity and touch sensitivity
- Excellent mechanical resistance
- Support material made of a flexible, open knit fabric with an elastic nitrile coating
- Pack of 1 pair

Length:	320 - 328 mm
Thickness:	0.175 mm
Colour:	grey/green

Size	PK	Cat. No.	Price
			EUR
7	1	6.318 070	**5,10**
8	1	6.318 071	**5,10**
9	1	6.318 072	**5,10**
10	1	6.318 073	**5,10**
11	1	6.318 074	**5,10**

Chemical Protection Glove Ultranitrile 492, Nitrile

EN ISO 374-1 Type A   EN ISO 374-5   EN 388

AJKOPT   VIRUS   3101X

MAPA PROFESSIONAL

Green nitrile glove with cotton flock liner. Anatomical shape. Good grip finish on palm and fingers. High mechanical resistance. Excellent chemical protection against alcohols, oils, greases and hydrocarbons. Thin material for increased dexterity. Comfort, due to the quality of the flock-lining. Cat. III

Specifications

Length:	320 mm
Thickness:	0.38 mm
Colour:	green

Size	PK	Cat. No.	Price
			EUR
XS (6)	10	4.686 092	**22,80**
S (7)	10	4.686 093	**22,80**
M (8)	10	4.686 094	**22,80**
L (9)	10	4.686 095	**22,80**
XL (10)	10	4.686 091	**22,80**

LLG-Disposable Gloves *ergo*, Nitrile, Powder-Free

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

KPT   VIRUS

LLG LABWARE

Disposable protective gloves made of nitrile, which combines the pleasant wearing properties and high tactile sensitivity of latex with the protective function of nitrile. No allergy risk! The ideal glove for all applications where good tactile sensitivity and protection against chemicals is desired.
- **Thin - very comfortable to wear!**
- Very good tactile sensitivity - comparable to latex
- Proven quality product made of nitrile - excellent resistance to skin-irritating substances in foodstuffs
- Higher durability due to special formulation
- Free of phthalates/plasticisers and allergenic latex proteins
- Easy to put on and particularly skin-friendly due to special after-treatment
- Suitable for all areas subject to HACCP standards
- **Cat. III against low chemical hazard. AQL 1.5.**

According to EN ISO 374-1:2016/Type B, EN ISO 374-5:2016, EN 420 Food safe.

Glove shape:	flat with rolled edge (ambidextrous)
Material:	nitrile
Colour:	lavender blue
Outside:	textured fingers
Inside:	powder-free halogenated
Size:	XS, S, M, L, XL
Thickness **(measured in double layer)**:	**0.12 mm**

Size	PK	Cat. No.	Price
			EUR
XS	200	9.006 370	**13,40**
S	200	9.006 371	**13,40**
M	200	9.006 372	**13,40**
L	200	9.006 373	**13,40**
XL	180	9.006 374	**13,40**

LLG-Glove dispenser for 1 or 3 boxes, acrylic glass

LLG LABWARE

6.286 594

9.405 373

9.405 374

High-quality, sturdy design. Mounting material included.

Description	For	PK	Cat. No.	Price
				EUR
side slot, sturdy material	1 Box	1	6.286 594	**18,10**
front insert, flexible material	3 Boxen	1	9.405 373	**40,40**
side slot, sturdy material	3 Boxen	1	9.405 374	**34,20**

Basket mask with valve

Particle-filtering mask with valve

- Protection class FFP3 NR D
- EN149:2001+A1:2009
- Metal free
- Textile headband for a comfortable and secure fit, adjustable
- Preformed nose area
- Soft sealing lip (PVC foam) for more comfort
- Mask fulfils the requirements of the dolomite dust test (D)

Description	Protection-level	PK	Cat. No.	Price EUR
Basket mask with valve	FFP3	10	6.316 169	**39,10**

Eye-Wash Bottle, Barikos KS

BARTELS RIEGER

According to DIN EN 15154-4. The water fillings have a shelf life of at least 2 years when sealed. With protective cap and tilt valve suitable for use with upright as well as downward spray head.

- pH-neutral water-based eye wash without chemical additives
- Ergonomically shaped eye recess

Description	PK	Cat. No.	Price EUR
Barikos KS, 620 ml, filled	1	9.005 009	**18,30**
Mini Barikos KS, 175 ml, filled	1	9.005 008	**13,50**

LLG-Safety Eyeshields *lady*

9.006 009

9.006 007

9.006 008

- CE approved to EN 166 and EN 170
- Panoramic wrapping lens
- 180° visual field
- Frame made of tested hypo-allergenic material
- Temples with rubber tips, adjustable in length and inclination
- Nosepad and terminal tips made from soft, moldable material for optimal comfort and individual customisation
- 100 % UV protection (up to 400 nm)
- Weighs only 25 g

Lens	PK	Cat. No.	Price EUR
clear, AF+, AS+, 2C-1.2 U 1 FT KN CE	1	9.006 007	**9,00**
clear, AF+, AS+, 2C-1.2 U 1 FT KN CE	1	9.006 008	**9,00**
clear, AF, AS, 2C-1.2 U 1 FT CE	1	9.006 009	**8,00**

LLG-Dispenserbox, Acrylic Glass

With hinged lid. For storage of laboratory tools, e.g. laboratory goggles, gloves or other small items.
Wall mounting possible (mounting material included)
- for about 12 goggles

Description	Dimensions (W x D x H) mm	PK	Cat. No.	Price EUR
LLG-Dispenserbox	216 x 216 x 200	1	6.286 593	**27,90**

PU Coated Gloves, nylon

The PU-coated nylon gloves are processed on the cuffs in a fraying preventing way.
- Very flexible
- Lint-free
- Palm PU-coated
- Particularly handy and suitable for handling smooth and slippery objects
- Colour coding of the cuffs
- Pack of 10 pairs

Size	Colour	PK	Cat. No.	Price
				EUR
S	white	10	4.659 030	8,50
M	green	10	4.659 029	8,50
L	grey	10	4.659 028	8,50
XL	brown	10	4.659 027	8,50

Adhesive Mats Sticky Mat

The Sticky Mat provides a fast, convenient, reliable way to clean shoe soles or other items before entering a clean and sanitary area. Sticky Mats significantly reduce traffic-borne contaminants.

Ergomat White Sticky Mats are produced in an 46 x 114 cm sheet, sold in pads of 30 sheets, with 10 pads per box (300 sheets total.)

Description	Colour	PK	Cat. No.	Price
				EUR
Frame for Cleanroom mats Sticky Mat	grey	1	6.272 245	79,50
1 mat of 30 sheets	white	10	6.272 241	103,50
1 mat of 30 sheets	blue	10	6.272 242	103,50
Set of 10 mats of 30 sheets + 1 frame	white	1	6.272 243	156,80
Set of 10 mats of 30 sheets + 1 frame	blue	1	6.272 244	156,80

Cleanroom Gloves AdvanTech 529, nitrile

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

JKT   VIRUS

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

Size	Length	PK	Cat. No.	Price
	mm			EUR
6	300	100	6.270 501	36,00
7	300	100	6.270 502	36,00
8	300	100	6.270 503	36,00
9	300	100	6.270 504	36,00
10	300	100	6.270 505	36,00

Cleanroom Wipes Sontara® MicroPure, polyester/cellulose

Specially designed for use in cleanrooms. The fleece combines the absorbency of natural fibres with the purity and strength of a synthetic material. Neither binders nor chemicals are used in the production process.

Type	Dimensions	Cleanroom Class ISO	PK	Cat. No.	Price
	mm				EUR
Sontara® MicroPure 100	305 x 305	5 + 6	150	9.390 185	32,70
Sontara® MicroPure 100	224 x 224	5 + 6	300	9.390 186	32,40
Sontara® MicroPure AP	305 x 305	6 - 9	150	9.390 187	33,60
Sontara® MicroPure AP	224 x 224	6 - 9	300	9.390 188	28,30
Sontara® MicroPure SV	305 x 305	7 - 9	250	9.390 189	34,80
Sontara® MicroPure SV	224 x 224	7 - 9	500	9.390 190	43,00

Hand brush, PP

- Soft bristles
- To remove fine particles
- Food-safe
- For colour coding
- Autoclavable

Bristle length	Overall length	Width	Height	Colour	PK	Cat. No.	Price
mm	mm	mm	mm				EUR
50	330	35	110	green	1	4.666 176	7,40
50	330	35	110	blue	1	4.666 177	7,40
50	330	35	110	red	1	4.666 178	7,40
50	330	35	110	white	1	4.666 179	7,40
50	330	35	110	yellow	1	4.666 180	7,40

Dustpan, PP

- Ergonomically designed
- Food-safe
- For colour coding
- Autoclavable

Length	Colour	PK	Cat. No.	Price
mm				EUR
330	green	1	4.666 171	8,80
330	blue	1	4.666 172	8,80
330	red	1	4.666 173	8,80
330	white	1	4.666 174	8,80
330	yellow	1	4.666 175	8,80

Wipes Multiclean®, 3-ply

Handy cleaning cloths, resistant and with high wet strength they are ideal for light and coarse dirt work.

Width	Length	Weight	Package contents	PK	Cat. No.	Price
mm	mm	g / m²				EUR
220	380	60	2 rolls with 500 tears	2	7.618 013	28,70
360	380	54	2 rolls with 500 tears	2	7.618 212	41,30
360	380	54	Roll with 1000 tears	1	7.671 903	38,40

Roll holders

6.266 991

6.266 990

Description	PK	Cat. No.	Price
			EUR
Floor stand with waste bag holder for rolls up to 42 cm width	1	6.266 990	78,60
Wall bracket with waste bag holder for rolls up to 42 cm width*	1	6.266 991	65,10
* incl. mounting material			

Overhead stirrer
LLG-uniSTIRRER OH2, digital

Laboratory stirrer designed for simple stirring tasks for quantities up to 20 l (H_2O). Automatic speed adjustment in the range between 50 and 2200 rpm via microprocessor-controlled technology. Safety circuits ensure automatic cut-off in an anti-stall or overload situation. Actual and set speed are constantly monitored ensuring no undesired speed variations, even if the sample viscosity changes.
- Brushless, maintenance-free motor
- Digital speed display
- **Display for speed or torque changeable**
- Infinitely adjustable speed
- **Overload protection**
- Non-slippery mat
- Slim casing
- Quiet operation
- Error code display
- RS232 port

Stand: Stainless steel stand incl. boss head, dimension (W x D x H): 200 x 310 x 780 mm, non-slippery mat
Stirrer: 4-blade propeller stirrer, stainless steel, shaft length 400 mm, stirrer diameter 50 mm

Scope of supply: Overhead stirrer LLG-uniSTIRRER OH2, stand, non-slippery mat and 4-blade-propeller stirrer

Specifications
Max. stirring quantity (H_2O):	20 l
Speed range:	50 ... 2.200 rpm
Max. viscosity:	10.000 mPas
Motor rating input/output:	60/50 W
Speed display accuracy:	±3 rpm
Max. torque at stirring shaft:	40 Ncm
Display:	LCD
Chuck range:	0.5 ... 10 mm
Dimensions (W x D x H):	83 x 186 x 220 mm
Power supply:	110 ... 240 V, 50/60 Hz
IP code:	IP 21

Type	Plug type	PK	Cat. No.	Price
				EUR
LLG-uniSTIRRER OH2	EU	1	6.263 455	**677,80**
LLG-uniSTIRRER OH2	UK	1	6.263 456	**677,80**

LLG-Magnetic Stirring Bar Retrievers, PTFE

PTFE-encapsulated stirring bar retriever with strong permanent magnet (Alnico 5), universal chemical resistance.

Diam.	Length	PK	Cat. No.	Price
mm	mm			**EUR**
8	150	1	9.197 717	**11,50**
8	250	1	9.197 725	**12,30**
8	270	1	4.008 501	**12,40**
8	350	1	9.197 735	**13,30**

4-Position-Magnetic Stirrer
LLG-uniSTIRRER 1/M4

An **Ultra-flat** inductive magnetic stirrer without heating with timer. The modern magnet coil technology consists only of non-moving parts and therefore guarantees a wear-free drive.
For a better mixing of samples it is possible to change the direction of rotation every 30 seconds.
- Max. stirring quantity per stirring position 400 ml
- **Timer** (1 to 99 min, infinitely)
- 100 % wear- and maintenance-free inductive drive
- LED-display for an exact adjustment of the rotation speed
- Digital regulated rotation speed
- Alteration of the stirring direction
- High Protection class IP 65
- Stainless steel surface

Scope of supply: magnetic stirrer, 1 mains adapter each US, AUS, UK, 1 stirring rod 25 x 8 mm

Specifications
Stirring positions:	4
Distance between Stirring postions:	95 mm
Max. Stirring quantity (H_2O):	4 x 0.4 l = 1.6 l
Speed range:	15 ... 1200 rpm
Permissible ambient temperature:	5 ... 40 °C
Magnetic bar:	max. 25 mm
Display:	LED
Heating plate (W x D):	122 x 385 mm
Dimensions (W x D x H):	126 x 457 x 13.5 mm
Weight:	1.9 kg
Power supply:	100 ... 240 V, 50/60 Hz
IP code:	IP 65

Type	Plug type	PK	Cat. No.	Price
				EUR
LLG-uniSTIRRER 1/M4	EU	1	6.263 425	**474,40**
LLG-uniSTIRRER 1/M4	UK	1	6.263 426	**474,40**

LLG-Magnetic stirring bars, cylindrical, PTFE, *eco pack*

Circular, smooth and PTFE-coated.

Diam.	Length	PK	Cat. No.	Price
mm	mm			**EUR**
6	10	10	9.198 910	**4,50**
3	12	10	9.198 766	**4,10**
6	15	10	9.198 919	**5,10**
6	20	10	9.198 920	**6,20**
6	25	10	9.198 925	**8,20**
8	25	10	9.198 767	**8,40**
6	30	10	9.198 930	**9,10**
6	35	10	9.198 935	**11,80**
8	40	10	9.198 940	**15,20**
8	45	10	9.198 945	**16,80**
8	50	10	9.198 950	**20,10**
9	60	10	9.198 960	**24,90**
9	70	10	9.198 970	**29,50**
9	80	10	9.198 980	**33,40**

Magnetic stirrer TWISTER

IKA®

Set 1

Set 2

NEW

Set 3

Set 4

Without heating. The TWISTER is a universal and particularly compact mixing device with magnetic drive, which can be expanded into a multi-position magnetic stirrer with a wide range of applications by connecting up to 30 devices in series. The stirring points can be controlled either separately or simultaneously (leader-follower principle).

- Intuitive 360° LED glass display for conveying all information without alpha-numerical display
- Integrated beaker detection
- Significant improvement of the mixing result with samples that are difficult to mix by changing the direction of rotation at definable time intervals (reverse function)
- Display of speed or power required for stirring for observation and percentage display of viscosity change
- Suitable for operation in incubators up to 40 °C
- Cleaning under the tap possible

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
Set 3 Scope of delivery: 3 x TWISTER magnetic stirrers,
1 x plug-in power supply unit with adapter,
3 x IKAFLON 25 round magnetic stirring bars
Set 4 Scope of delivery: 4 x TWISTER magnetic stirrers,
1 x plug-in power supply unit with adapter,
4 x IKAFLON 25 round magnetic stirring bars

Specifications

Max. stirred volume per postion:	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

Type	Stirring capacity	PK	Cat. No.	Price
	l			**EUR**
TWISTER Set 1	5	1	4.685 997	**424,80**
TWISTER Set 2	10	1	4.685 998	**797,50**
TWISTER Set 3	15	1	4.685 999	**1.170,10**
TWISTER Set 4	20	1	4.686 000	**1.487,70**

LLG-Magnetic stirrer RCT standard 2.0, Set

LLG LABWARE

WARRANTY 3 YEARS

The next generation of our top-selling IKA/LLG-Labware co-branded LLG-RCT Standard magnetic stirrer. New design, new features! Trusted and reliable quality!

- Digital controlled speed and temperature
- Clearly arranged LED display
- Digital display of set safety temperature limit
- Hot top indicator, hot surface warning to prevent burns
- Adjustable safety circuit of heating plate temperature
- Digital error code display
- Connection for external PT1000 temperature probe
- Aluminium hotplate for optimal heat transfer
- Enhanced safety due to improved heat control technology
- USB interface
- Powerful motor
- Improved magnetic coupling
- Supplied with housing protection cover
- Tested acc. to DIN EN IEC 61010-1

Scope of supply: Magnetic stirrer, contact thermometer ETS-D5, temperature probe PT1000, housing protection cover, stand accessories

Specifications

Max. stirring quantity (H_2O):	20 l
Speed range:	50 ... 1500 rpm
Heating plate	Ø 135 mm
Temperature range:	RT + device self-heating ... 310 °C
Heat output:	600 W
Safety temperature range:	50 ... 360 °C
Dimensions (W x D x H):	160 x 270 x 85 mm
Weight:	2.4 kg
Power supply:	220 ... 230/115/100 V, 50/60 Hz
IP code:	IP 42

Description	Plug type	PK	Cat. No.	Price
				EUR
LLG magnetic stirrer RCT standard 2.0, set	EU	1	6.320 411	**1.196,60**
LLG magnetic stirrer RCT standard 2.0, set	CH	1	6.322 748	**1.196,60**
LLG magnetic stirrer RCT standard 2.0, set	UK	1	6.322 749	**1.196,60**

You can find our complete range on our website.

Thermo shaker
LLG-uni*THERMIX* 1 pro and 2 pro

LLG-uni*THERMIX* 2 pro

LLG-uni*THERMIX* 1 pro

The LLG-uni*THERMIX* pro is ideal for shaking and temperature control of a variety of tubes or plates (depending on the block used).

- Easy and quick change of heating blocks due to magnetic fastening
- Precise temperature control system
- Efficient mixing up to 1500 rpm (depending on the heating block)
- Up to 9 storable programs

LLG-uni*THERMIX* 1 pro: with shaking and heating function, Temperature range: RT + 5 °C ... approx. 100 °C

LLG-uni*THERMIX* 2 pro: with shaking, cooling and heating function, Temperature range: 15 °C below RT ... approx. 100 °C

Blocks must be ordered separately.

Scope of supply: thermal shaker, 4 suction feet

Specifications
Temperature range	
LLG-uni*THERMIX* 1 pro:	RT + 5 °C ... approx. 100 °C
LLG-uni*THERMIX* 2 pro:	15 °C below RT ... approx. 100 °C
Temperature control:	±0.5 °C (at 20 ... 45 °C)
Uniformity:	±0.5 °C (at 20 ... 45 °C)
Max. heating rate:	5.5 °C/min
Max. cooling rate	5 °C/min (100 °C ... RT)
(LLG-uni*THERMIX* 2 pro only):	0.5 °C/min (below RT)
Electrical heating/cooling power:	200 W
Speed range:	300 ... 1500 rpm
Orbit:	3 mm
Display:	LCD
Programs:	6 stages, 9 programs
Timer:	1 ... 99 hours or continuous
Capacity:	1 exchangeable block
Dimensions (W x D x H):	200 x 235 x 120 mm
Weight:	7.3 kg
Power supply:	220 ... 240 V, 50/60 Hz

Type	Plug type	PK	Cat. No.	Price
				EUR
LLG-uni*THERMIX* 1 pro	EU	1	6.263 482	**940,80**
LLG-uni*THERMIX* 1 pro	UK	1	6.263 483	**940,80**
LLG-uni*THERMIX* 2 pro	EU	1	6.263 484	**1.564,90**
LLG-uni*THERMIX* 2 pro	UK	1	6.263 485	**1.564,90**

Heating blocks for Thermo shaker
LLG-uni*THERMIX* 1 and 2 pro

For	PK	Cat. No.	Price
			EUR
24 tubes, 1.5 ml	1	6.263 487	**174,40**
24 tubes, 2 ml	1	6.263 494	**174,40**
8 tubes, 5 ml	1	6.263 495	**174,40**
8 tubes, 15 ml	1	6.263 496	**290,90**
4 tubes, 50 ml	1	6.263 497	**290,90**
96 well PCR plates, 0.2 ml tubes	1	6.263 498	**174,40**
96/384 microplate	1	6.263 499	**174,40**

Benchtop Shaking Incubator 222DS

- **Useable in cold rooms**
- **Easy changeable platforms**

The Benchtop Shaking Incubator is a combination of a shaker and a temperature chamber, designed for shaking and heat treatment of sensitive samples. It replaces two devices, reduces time and space needed. It is very suitable for biochemistry, microbiology and medicine laboratories in which thermal and shaking treatment of samples is a daily used routine.

- Can be used in cold rooms too
- Digital readout of all parameters - read temporary or preset RPM, temperature, time, acceleration
- HOLD and STEP time function with 1 minute resolution

Univeral attachement and non-slip mat please order separately.

Specifications
Temperature range:	Ambient +5 °C ... 70 °C
Precision:	±0.5 °C
Speed range:	20 ... 300 rpm
Timer:	1 min - 99 hours or continuous
Platform size:	300 x 300 mm
Supply requirements:	230 V, 50 Hz

Type	PK	Cat. No.	Price
			EUR
222DS	1	6.259 079	**2.543,70**

Accessories for Benchtop Shaking Incubator 222DS

Description	PK	Cat. No.	Price
			EUR
Universal platform 30 x 30 cm	1	6.259 080	**249,90**
Non-slip mat	2	6.259 082	**41,70**

LLG-Test tube rack, PP

Made of PP. Stackable. The LLG racks are supplied in three parts and are easy to put together. With alphanumeric position marking for quick and easy identification of samples. Autoclavable.

For tubes diam.	Colour	Dimensions (W x D x H)	Array	PK	Cat. No.	Price
mm		mm				EUR
16	white	251 x 106 x 71	60	1	6.286 169	4,20
16	blue	251 x 106 x 71	60	1	6.286 170	4,20
16	red	251 x 106 x 71	60	1	6.286 171	4,20
20	white	252 x 108 x 72	40	1	6.286 172	4,20
20	blue	252 x 108 x 72	40	1	6.286 173	4,20
20	red	252 x 108 x 72	40	1	6.286 174	4,20
30	white	252 x 107 x 71	21	1	6.286 175	4,20
30	blue	252 x 107 x 71	21	1	6.286 176	4,20
30	red	252 x 107 x 71	21	1	6.286 177	4,20

LLG-Centrifuge Tubes economy, PP

- With flat PE caps
- With conical bottom (15 and 50 ml) or with self-standing bottom (50 ml)
- Easy-to-read black volume graduations
- With a large frosted writing area
- Engraved graduation at the conical bottom of each tube
- Max. rotate speed up to 12000 x g for conical bottom tubes and 6000 x g for self-standing tubes
- Autoclavable at 121 °C and freezable to -80 °C
- Leak-proof
- Free of heavy metals, pyrogens and endotoxins
- DNase/RNase-free
- Aseptically or sterile

Capacity	Description	Form	PK	Cat. No.	Price
ml					EUR
15	Sterile, in bag of 25 pieces	conical	500	4.668 482	66,30
50	Sterile, in bag of 25 pieces	conical	500	4.668 483	82,10
50	Sterile, in bag of 25 pieces	with rim	500	4.668 486	91,10
15	Aseptically, bulk pack	conical	500	6.270 403	53,60
50	Aseptically, bulk pack	conical	500	6.270 404	67,30
50	Aseptically, bulk pack	with rim	500	6.270 405	71,70

Vortex mixers WIZARD with IR sensor

- **Touchless start due to infrared sensor**
- **Safe stand due to non-slip feet**
- **High chemical and corrosion resistance**

Vortexers with patented IR sensor for sample recognition: the shaking process starts automatically when the sample tube approaches the mixing cup head. This enables fatigue-free working, as the sample doesn't have to be pressed on the device.
- For IR sensor and continuous operation
- Electronic speed control
- Adjustable shaking speeds up to 3000 rpm
- Very good chemical resistance
- Broad range of accessories available

Scope of delivery: Vortex mixer with mixing head

Specifications

Type of movement:	orbital
Orbital diameter:	4.5 mm
Speed range:	0 ... 3000 rpm
Input power	15 W
IP code:	IP 42
Power supply:	100 ... 240 V, 50 ... 60 Hz
Warranty:	3 years

Type	Plug type	PK	Cat. No.	Price
				EUR
WIZARD	EU	1	4.666 536	243,30

LLG-Centrifuge tubes, 5 ml, PP

The LLG-Centrifuge tubes, 5ml, represent the perfect solution for all laboratory applications requiring incubation, centrifugation and sample handling in an intermediate volume range.

- Max. 25000 x g, suitable for high speed centrifugation
- Graduations every 0.25 ml for easy volume estimation
- A flat, frosted cap and large writing pad for sample labeling and identification
- Autoclavable
- Fits all rotors and racks that hold 15 ml conical tubes, no adapters needed
- Certified free of RNase and DNase

Description	Package contents	PK	Cat. No.	Price
				EUR
Clear	1 bag of 250 pieces	250	6.281 113	28,90
Amber	1 bag of 250 pieces	250	6.281 115	24,70

Refrigerated circulators CORIO™ CP

With insulated stainless steel bath tanks, flexible performance and an operating temperature range of up to 200 °C.
- Suitable for internal and external applications
- Stainless steel bath tanks
- External pump connections M16x1
- Early warning system for low level
- Simple switchover between internal and external circulation
- Powerful, infinitely variable pump
- Natural refrigerant
- USB connection
- RS232 interface
- Class III (FL) according to DIN 12876-1

Scope of supply: Refrigerated circulator, mains power cable, connection box, bath cover, connecting cable, refrigerator, hose connectors 8 and 12 mm

Specifications

Setting accuracy:	0.01 °C
Temperature range:	30 ... 200 °C
Temperature uniformity:	±0.03 °C
Pump output:	8 ... 27 l/min
Pump pressure:	0.1 ... 0.7 bar
Heat output:	2 kW
Timer:	0 ... 999 min
Hose connector inner width:	8/12 mm
Permissible ambient temperature:	5 ... 40 °C
Power supply:	230 V/50 Hz

Type	Capacity of the bath	Cooling capacity kW at 20/0/-20°C	PK	Cat. No.	Price
	litres				EUR
CP-310F	4	0,3 / 0,27 / 0,12	1	4.685 630	**5.537,10**
CP-450F	4	0,44 / 0,37 / 0,16	1	4.685 632	**6.056,10**

Digital water baths JB Nova

General-purpose water baths with stable temperature control and fast heating rate. Base tray and lid included as standard.

- Ambient +5 °C to 95 °C
- Unique Set and Forget™ technology, fast reliable temperature control
- Drain tap on 12 L, 18 L and 26 L baths
- Practical front panel lock, deactivated OPERATING UNIT
- 3-year warranty

Accessory polypropylene spheres or a lid must be used at temperatures between +60 °C and +99 °C.

Please order PP spheres separately.

Type	Capacity of the bath	External dimensions (W x D x H)	PK	Cat. No.	Price
	litres	mm			EUR
JBN5	5	335 x 215 x 200	1	9.905 870	**704,60**
JBN12	12	360 x 380 x 225	1	9.905 871	**815,20**
JBN18	18	335 x 590 x 275	1	9.905 872	**966,00**
JBN26	26	335 x 590 x 275	1	9.905 873	**1.131,40**

Digital dry bath LLG-uni*BLOCKTHERM*

Suitable for use in microbiological, histological, clinical, industrial and environmental laboratories.
- Digital control with LED display
- Can be used up to 120 °C
- For timer and continuous operation
- 1 x block unit
- With overheating protection

Scope of supply: LLG-uni*BLOCKTHERM*, removal tool, lid

Please order heating blocks separately.

Specifications

Temperature range:	RT ... 120 °C
Temperature uniformity:	±0.5 °C
Temperature accuracy:	±0.5 °C
Timer:	0 ... 99:59:00 min
Block material:	Aluminium
Dimensions (W x D x H):	175 x 290 x 85 mm
Weight:	3 kg
Power supply:	220 ... 240 V, 50/60 Hz

Type	Plug type		PK	Cat. No.	Price
					EUR
LLG-uni*BLOCKTHERM*	EU		1	6.263 460	**292,30**
LLG-uni*BLOCKTHERM*	UK		1	6.263 461	**292,30**

Heating blocks for LLG-uni*BLOCKTHERM*

Dimensions Heating blocks (W x D x H): 95 x 150 x 50 mm

Description	Diam.	PK	Cat. No.	Price
	mm			EUR
54 x 0.2 ml	6.4	1	6.263 462	**106,50**
40 x 1.5 ml	11	1	6.263 464	**106,50**
40 x 2.0 ml	11	1	6.263 465	**106,50**
28 x 5/15 ml	17	1	6.263 466	**106,50**
8 x 50 ml	29.8	1	6.263 467	**106,50**
for 96/384 Microplate	-	1	6.263 468	**106,50**
for each 18 x 0.2 ml, 0.5 ml and 1.5/2.0 ml	-	1	6.263 469	**85,90**

LLG- Floating pellets, PP

Pellets with 20 mm diameter. Can cover 0.1 m². Temperature stable up to 100 °C.

Description		PK	Cat. No.	Price
				EUR
Floating pellets		250	6.266 611	**26,60**

Rotary vane pump CRVpro 2

WELCH Formerly ILMVAC
by Gardner Denver

Specifications
Ultimate pressure without gas ballast partial:	3×10^{-4} mbar
Ultimate pressure without gas ballast total:	3×10^{-3} mbar
Ultimate pressure with gas ballast total:	9×10^{-2} mbar
Connection:	DN 16 KF
Motor rating 50/60Hz:	0.29/0.3 kW
Nominal speed 50/60Hz:	1440/1720 rpm
Dimensions (L x W x H):	384 x 138 x 211 mm
Weight:	15 kg

Type	Suction rate (50/60Hz)	Oil capacity	Plug type	PK	Cat. No.	Price
	L / min.	ml				EUR
CRVpro 2	38/47	450	EU, UK	1	6.313 234	**1.669,30**

Diaphragm vacuum pump LABOPORT® N820G, chemically-resistant

! **For very aggressive corrosive gases/vapours**

KnF LAB

For rotary evaporation, distillation, gel drying, degassing as well as the use with vacuum ovens and vacuum concentrators. Due to the manual rotational speed control, the pumps are quiet, very energy efficient, and can be optimally adjusted in accordance with the application.

- Easy-to-clean surface
- Adjustable in flow rate due to manual rotational speed control
- Combination of PTFE pump head and PTFE-coated diaphragm makes the pump ideal for extremely aggressive/corrosive gases and vapors
- High level of compatibility with vapor and condensation
- Integrated gas ballast valve
- 3-color status display: In operation/ Stand-by/Error
- ATEX-compliant in accordance with II 2/-G IIB+H2 T3 internal atmosphere only
- 100 % oil-free transfer

Specifications
Ultimate vacuum (abs.):	6 mbar
Operating pressure:	0.1 bar
Connectors for tube:	ID 9/10 mm
Permissible ambient temperature:	5 ... 40 °C
Pump head:	TFM™ PTFE
Diaphragm:	PTFE-beschichtet
Valves:	FFPM

Type	Flow rate	Dimensions (W x D x H)	PK	Cat. No.	Price
	L / min.	mm			EUR
N820G	20	163 x 259 x 220	1	4.672 375	**1.494,30**

Rotary vane pump CRVpro 4/6/8

WELCH Formerly ILMVAC
by Gardner Denver

The CRVpro pumps are powerful, two-stage vacuum pumps. They impress with their long service life, reliability and low maintenance requirements.

- Lower oil consumption due to low heat generation during operation.
- Corrosion protection through coating of the inner surface of the oil housing
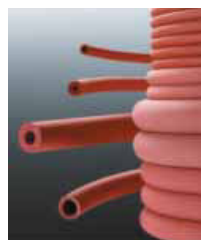- Low maintenance costs due to extended oil change intervals

Scope of delivery: Each pump is supplied with vacuum pump oil, centring rings, clamping rings and motor overload protection.

Specifications
Ultimate pressure without gas ballast partial:	5×10^{-4} mbar
Ultimate pressure without gas ballast total:	2×10^{-3} mbar
Ultimate pressure with gas ballast total:	7×10^{-2} mbar
Connection:	DN 16 KF
Motor rating 50/60Hz:	0.37/0.4 kW
Nominal speed 50/60Hz:	1450/1740 rpm
Dimensions (L x W x H):	463 x 157 x 230 mm

Type	Suction rate (50/60Hz)	Oil capacity	Plug type	PK	Cat. No.	Price
	L / min.	ml				EUR
CRVpro 4	63/77	1150	EU, UK	1	6.290 993	**1.831,60**
CRVpro 6	85/122	1150	EU, UK	1	6.290 994	**2.164,60**
CRVpro 8	122/143	1000	EU, UK	1	6.290 995	**2.625,70**

Vacuum tubing, rubber (NR)

DEUTSCH & NEUMANN D&N

Red. Durometer 45 Shore A.
Charge per metre.

Int. diam.	Wall thickness		PK	Cat. No.	Price
mm	mm				EUR
4	4		10	4.679 011	**53,10**
5	5		10	9.205 811	**53,80**
6	5		10	9.205 812	**60,30**
7	4		10	4.679 012	**58,00**
7	5		10	9.205 813	**66,40**
8	5		10	9.205 814	**79,20**

Optical Measurement

Hand Refractometer LLG-uniREFRACTO 5 pro

LLG-uni*REFRACTO* 5 pro is a compact digital 3-scale handheld refractometer for measuring, e.g. Brix and refractive index of liquids. Two scales are pre-set to 0 - 95 % Brix and 1.33 - 1.54 RI, the third scale can be freely selected from more than 45 different scales, including Brix, refractive index, AdBlue®, °Baume, °Butyro, Ethylene Glycol %, Calcium Chloride % and specific gravity. All three scales can be freely selected and changed. The operation is quick and easy, calibration can simply be done with distilled water. The waterproof housing (IP 65) allows cleaning under running water.

- Easy switching between the three scales
- 4-digit LCD display
- Automatic temperature correction
- Sample plate made of stainless steel

Scope of supply: Refractometer, protective cover

Specifications
Resolution:	0.1 % Brix/0.0001 RI
Accuracy:	±0.2 % Brix/±0.0003 RI
Operating temperature:	5 ... 40 °C
Measuring temperature sample:	5 ... 80 °C
Rel. Humidity:	< 95 %
Dimensions (W x D x H):	120 x 55 x 35 mm
Weight:	180 g
Power supply:	2 x AAA/LR03
IP code:	IP 65

Type	PK	Cat. No.	Price
			EUR
LLG-uni*REFRACTO* 5 pro	1	6.263 632	**358,70**

Sucrose (Brix) Standards

Certified stabilized Sucrose (Brix) Standards.
- ISO 17025 accredited
- Uncertainty of measurement of 0.11 % for all Brix values at 20 °C
- Equivalent Nominal Refractive Index values from ICUMSA published tables reported on Certificate of Analysis
- Compatible with any brand of Refractometer
- 12 month shelf life
- Provided in high quality HDPE 15 ml dropper bottles

Brix	Refractive Index at 20 °C	PK	Cat. No.	Price
%				**EUR**
0	1.332986 nD	1	6.264 212	**72,20**
5	1.340264 nD	1	6.265 876	**72,20**
10	1.347824 nD	1	6.257 923	**72,20**
14.9	1.355519 nD	1	6.290 413	**130,30**
15	1.355679 nD	1	6.263 260	**72,20**
20	1.363842 nD	1	6.264 889	**72,20**
30	1.381149 nD	1	6.258 368	**72,20**
40	1.399860 nD	1	7.660 408	**72,20**
50	1.420087 nD	1	6.258 369	**72,20**
60	1.441928 nD	1	6.265 875	**72,20**
67.5	1.459290 nD	1	6.264 213	**72,20**

Gloss meter TG 268

Versatile, portable gloss meter designed for fast and accurate measurement of low, medium or high gloss levels of coatings, plastics and related materials. The device is also suitable for large-scale uniformity checks in continuity mode.

- Basic, statistical and continuous measurement methods
- Display of 5 data rows including storage capacity of more than 5000 data sets
- TFT 3.5 inch, capacitive touchscreen
- Intuitive, integrated software with icon guide
- USB and RS 232 interfaces
- Supports ASTM D523, ASTM C584, ASTM D2457, BS3900 D5, DIN 67530, DIN EN ISO 2813, EN ISO 7668 and JI Z 8741 standards

Scope of supply: Gloss meter, OnGloss software (PC), calibration plate, USB cable, external DC power supply, user manual (USB stick), carrying case, battery

Specifications
Measuring angle:	20°/60°/85°
Measuring range:	20°: 0 ... 2000 GU xA;60°: 0 ... 1000 GU xA;85°: 0 ... 160 GU
Resolution:	0.1 GU
Storage:	Basic Mode: 1000 xA; Statistical Mode: 5000 xA;Continuous Mode: 5000
Environmental conditions:	0 ... 40 °C, 85 % RH
Dimensions (W x D x H):	160 x 75 x 90 mm
Weight:	350 g
Power supply:	3200 mAh Li-ion battery

Description	PK	Cat. No.	Price
			EUR
TG 268	1	4.672 490	**2.288,20**

Cells W600

Cells made of optical glass or Borosilicate glass 3.3, 21 mm x 40 mm, for instument 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)

Type	Path length	Material	PK	Cat. No.	Price
	mm				**EUR**
W600/OG/10	10	optical glass	1	6.207 120	**42,50**
W600/OG/1"	25.4	optical glass	1	9.947 342	**48,80**
W600/OG/33	33	optical glass	1	6.093 322	**58,30**
W600/OG/50	50	optical glass	1	6.207 119	**66,20**
W600/OG/100	100	optical glass	1	6.235 055	**122,90**
W600/OG/5¼"	133.35	optical glass	1	9.947 343	**91,40**
W600/B/100	100	Borosilicate glass 3.3	1	6.253 940	**157,50**
W600/B/5¼"	133.35	Borosilicate glass 3.3	1	9.947 345	**118,20**

You can find our complete range on our website.

Microscopes B1 Elite

Motic
MORE THAN MICROSCOPY

- **High performing laboratory microscope**
- **Quadruple revolving nosepiece**
- **Widefield eyepieces**

The B1 Elite series covers a wide range of the daily work for schools and laboratories.

- Binocular head 45°, trinocular head 30°, 360° rotating
- Widefield eyepieces WF 10X/18 mm
- Quadruple revolving nosepiece
- Semi-Plan objectives SP 4X, 10X, 40X S
- Diopter adjustment on both eyepiece sockets
- Coaxial coarse and fine focusing system with tension adjustment
- Built-in low position coaxial rackless mechanical stage
- Focusable 1.25 N.A. Abbe condenser with iris diaphragm
- LED illumination 3 W with intensity control
- Mains supply: 110 ... 240 V

Scope of supply: Microscope, dust cover

Type	Description	PK	Cat. No.	Price
				EUR
B1-220E-SP	Binocular	1	4.685 486	**454,50**
B1-223E-SP	Trinocular	1	4.685 487	**587,60**

LLG-Slide dispenser

LLG LABWARE

Slide dispenser can dispense 91 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.

Type	PK	Cat. No.	Price
			EUR
LLG dispenser for slides	1	9.161 000	**18,80**

Microscope Camera MOTICAM S3

Motic
MORE THAN MICROSCOPY

- **Fast frame rates with large viewing field**
- **For applications with low light output**
- **Extremely quiet background noise**

The next generation of Moticams offers solutions for a wide variety of applications in digital microscopy. Compact and robust, equipped with high-quality sCMOS sensors with many different resolutions and fast USB 3.1 connection.

Resolution	Sensor format	PK	Cat. No.	Price
				EUR
3 MP (max. 2448 x 1536 px)	1/2.8" sCMOS	1	4.672 119	**449,70**

C-Mount camera adapter for B1-223E-SP

Description	PK	Cat. No.	Price
			EUR
C-Mount camera adapter 0.5X for 1/3"	1	6.237 216	**57,40**

LLG-Slide mailers

LLG LABWARE

Manufactured from high density polypropylene, for shipping, storing or staining slides. Flat mailers can hold 1, 2, 3 or 5 standard (up to 76 mm x 26 mm) slides securely.
- Light weight and flat
- With marking area and "Top" printed on top surface
- With large, easy-to secure snaps
- Slotted channels inside mailer keep slides safely separated

To hold microscope slides	PK	Cat. No.	Price
			EUR
1	10	9.161 291	**5,20**
2	10	9.161 292	**6,30**
3	10	9.161 293	**7,00**
5	10	9.161 294	**7,40**

Density meters DMA 35

Anton Paar

- **Only 2 ml sample liquid needed**
- **Quick filling due to built-in pump/syringe**

Portable, digital measuring device for the determination of density, relative density and concentration. DMA 35 EX and DMA 35 EX Petrol are certified according to ATEX for applications in hazardous environments.

- Oscillator principle (borosilicate glass oscillator)
- Viscosity correction for measurements also on highly viscous samples
- Measuring of density, relative density, alcohol concentration, sugar/extraction concentration, API functions, H_2SO_4 concentration, ten programmable custom-specific measuring units
- Robust case with exchangeable cell
- 3 years warranty

Scope of supply: Density meter, filling tube, adapter for syringe filling, syringes, transportation case, rubber protection for measuring cell, 3 x batteries, allen key, instructions.

Specification

Density range:	0 ... 3 g/cm³
Resolution:	0.0001 g/cm³
Accuracy:	±0.001 g/cm³
Sample temperature range:	0 ... 100 °C
Temperature measurement range:	0 ... 40 °C
Resolution:	0.1 °C
Accuracy:	±0.2 °C
Reproducibility standard deviation (acc. to ISO 5725):	0.0007 g/cm³
Sample volume:	2 ml
Data memory:	1024 measurement results, 250 sample IDs, 30 measuring methods
Display:	coloured LCD, self-rotating
Interfaces:	Bluetooth®, RFID
Dimensions (W x D x H):	103 x 245 x 126 mm
Weight:	660 g
Power supply:	3 x Mignon alkaline batteries, 1.5 V LR06 AA
IP code:	IP 54

Type	PK	Cat. No.	Price
			EUR
DMA 35 Standard	1	6.313 803	**3.025,90**
DMA 35 EX	1	6.313 804	**3.615,70**
DMA 35 EX Petrol	1	6.313 805	**3.615,70**

Turbidity meter TB350

Lovibond

TB350 IR

The mobile turbidimeters are characterised by the use of Multipath 90° BLAC® technology. Here, samples with low and high turbidity can be analysed purely nephelometrically with the highest accuracy over the entire measuring range up to 4000 NTU.

- elimination of stray light by light-absorbing traps (BLAC®)
- Data logger for 250 measurements plus all calibrations,
- 3 different modes: single, signal average, fast setting
- USB-C interface
- Optional operation with battery pack or mains connection

TB350 IR: With infra red LED light source (860 nm), acc. to ISO 7027. Incl. Turbidity standards with 5, 20, 800 and 4000 NTU.

TB350 WL: With white light LED light source, acc. to EPA (pending). Incl. Turbidity standards with 5, 20, 800, 2000 and 4000 NTU

Scope of delivery: Instrument, carrying case with plastic insert, T-CAL® calibration and verification standards, silicone oil, sample vials with black lids, cleaning cloth, brush for sample vials, screwdriver, AA batteries

Specifications	TB350 IR || TB350 WL
Measuring range:	0 ... 4000 NTU
Resolution:	0.01 NTU
Accuracy:	±1.8 % + <0.014 NTU
Reproducibility:	<1 %, ±0.01 NTU
Dimensions (W x D x H):	155 x 225 x 83 mm
Weight:	898 g
Power supply:	100 ... 240 V, 50/60 Hz, 4 x AA batteries || 4 x AA batteries
IP code:	IP 67

Type	PK	Cat. No.	Price
			EUR
TB350 IR	1	6.322 835	**1.687,90**
TB350 WL	1	6.321 184	**1.687,90**

Turbidity Standards

Reagecon

Suitable for checking all turbidimeters. Stable, shelf life of 2 years (from date of manufacture). Traceable to NIST, US EPA approved and tested in accordance with ISO 7027.

- Non Ratio for Non Ratio Turbidity Measuring instruments will measure the scattered light from the sample at a 90° angle from the incident light (one detector)

Description	Volume	PK	Cat. No.	Price
	ml			**EUR**
Non Ratio 0.0 NTU	100	1	6.233 961	**68,80**
Non Ratio 0.1 NTU	100	1	6.075 473	**68,80**
Non Ratio 20 NTU	100	1	6.233 962	**96,30**
Non Ratio 200 NTU	100	1	4.012 096	**157,20**
Non Ratio 800 NTU	100	1	4.012 099	**157,20**

Chemical Oxygen Demand (COD) Standards

Reagecon

These standards are ideal for use as control standards to verify that correct analysis for COD has taken place. Extensive range (10 to 60000 ppm), NIST traceable, 2 years shelf-life. HDPE bottle of 500 ml.

Type	Measuring range mg / l	PK	Cat. No.	Price EUR
COD50	50	1	6.234 998	88,30
COD100	100	1	6.234 999	88,30
COD200	200	1	6.206 516	88,30
COD500	500	1	6.234 552	88,30
COD600	600	1	6.206 517	88,30
COD1000	1000	1	6.232 202	88,30
COD1500	1500	1	6.238 379	88,30
COD5000	5000	1	4.012 236	88,30
COD10M	10000	1	6.233 809	88,30

Osmolality standards

Reagecon

Osmolality Standards for calibration and control, compatible with all types of osmometers. Extensive range: 50 to 3000 mOsmol/kg H_2O, ISO 17025 certified. Values from 100 to 700 mOsmol/kg H_2O according to European Pharmacopoeia 2.2.35 and US Pharmacopeia 785. 12 ampoules of 5 ml each.

Type	Description	PK	Cat. No.	Price EUR
RE-OSM-100	100 mOsmol/kg H_2O	12	6.286 324	112,60
RE-OSM-200	200 mOsmol/kg H_2O	12	6.286 325	112,60
RE-OSM-300	300 mOsmol/kg H_2O	12	6.284 310	112,60
RE-OSM-400	400 mOsmol/kg H_2O	12	7.970 554	112,60
RE-OSM-500	500 mOsmol/kg H_2O	12	6.270 201	112,60
RE-OSM-600	600 mOsmol/kg H_2O	12	6.286 327	112,60
RE-OSM-700	700 mOsmol/kg H_2O	12	6.286 328	112,60
RE-OSM-900	900 mOsmol/kg H_2O	12	6.286 335	112,60

Cryoscope standards

Reagecon

Compatible for use on all Cryoscopes compliant to International Reference Standard ISO5764/IDF108 for the determination of Freezing Point in milk. High accuracy, 1 year shelf-life (from Date of Manufacturing). Supplied in 250 and 100 ml HDPE bottle and a convenient cap with collapsible filling nozzle

Type	Measuring range	Capacity ml	PK	Cat. No.	Price EUR
MTR01025	0.000 °C	250	1	4.012 189	15,30
MTR02025	-0.408 °C, 422 m°H	250	1	4.012 190	15,30
MTR020X	-0.408 °C, 422 m°H	100	1	6.286 186	11,90
MTR03025	-0,512 °C, 530 m°H	250	1	4.012 191	15,30
MTR030X	-0,512 °C, 530 m°H	100	1	6.286 187	11,90
MTR03525	-0.557 °C, 577 m°H	250	1	4.012 192	15,30
MTR04025	-0.600 °C, 621 m°H	250	1	4.012 193	15,30
MTR040x	-0.600 °C, 621 m°H	100	1	6.286 188	11,90

LLG-Conductivity Solutions

LLG LABWARE

- Values stated at 25 °C: Accuracy ±1 %
- Directly traceable to NIST
- Certificate including actual value, expiration date and uncertainty of measurement

Type	Capacity ml	PK	Cat. No.	Price EUR
84 µS/cm	500	1	9.040 861	14,40
147 µS/cm	500	1	9.040 862	14,40
1.413 µS/cm	500	1	9.040 863	10,50
12.880 µS/cm	500	1	9.040 864	14,40

You can find our complete range on our website.

Ultra pure water system OmniaTap xs^touch 8 Sets

stak**pure**

- **Display of all operating parameters in real time**
- **Extremely compact design**
- **Resource saving and completely independent**

NEW

For pure and ultrapure water type I + II. OmniaTap is the ideal system when both pure and ultrapure water are required in small quantities for analytical and life science applications in the laboratory. The system can be connected directly to the drinking water line. With the standard OptiFilltouch operating and monitoring unit, type I ultrapure water is drawn off and can be conveniently and precisely filled into laboratory vessels. The integrated 7 l tank with recirculation keeps the water quality permanently at type II.

Scope of supply: Ultra pure water system, RO cartridges, ultra pure water cartridges, sterile filter capsule (0.2 µm), sterile overflow, sterile vent filter

Specifications
Pure water type II:

Pure water output (at 15 °C):	8 l/h
Resistivity:	15 ... 10 MΩ x cm
Conductivity:	0.067 ... 0.1 µS/cm

Ultra pure water type I:

Ultra pure water output:	Up to 2 l/min
Dispensing volume:	0.05 ... 25 l
Resistivity:	18.2 MΩ x cm
Conductivity:	0.055 µS/cm
Bacteria (with filter):	<0.01 CFU/ml
Particles (with filter):	<1/ml
RNase (with UF module):	<1 ng/ml
DNase (with UF module):	<5 pg/µl
Proteases (with UF module):	<0.15 µg/l
Feed water requirements:	Drinking water acc. to DIN 2000
Dimensions incl. OptiFill^touch dispenser (W x D x H):	253 x 520 x 530 mm
Weight incl. OptiFill^touch dispenser:	19 kg
Power supply:	90 ... 240 V, 50 ... 60 Hz

Type	TOC value	Endotoxins	PK	Cat. No.	Price
	ppb	EU/ml			**EUR**
OmniaTap xs^touch 8 UV-TOC Set	<2	-	1	6.490 550	**4.900,90**
OmniaTap xs^touch 8 UV-TOC/UF Set	<5	<0,001	1	6.490 551	**5.522,00**

Distilled water

DR. WEIGERT

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			**EUR**
10	1	6.273 852	**7,80**
20	1	6.280 900	**17,60**

Water, nuclease-free

chem**lab**

Nuclease-free water is pure, quality-tested water suitable for use in all experiments that require nuclease-free water, including molecular biology applications. Nuclease-free water is prepared in a proprietary process, which yields DNase, RNase, and nuclease-free, deionized water without the use of chemical additives, such as diethylpyrocarbonate (DEPC).

Type	Nominal capacity	PK	Cat. No.	Price
	ml			**EUR**
Water, nuclease-free	1000	1	4.675 029	**34,20**

Water, ultra pure

chem**lab**

Water for a variety of applications in analytical chemistry.
H_2O - LF < 1 µS/cm - 0.4 µm, UV filtrated.

Type	Nominal capacity	PK	Cat. No.	Price
	ml			**EUR**
Water, ultra pure	5000	1	4.675 028	**12,30**

Digital thermometer testo 915i Set

The testo 915i temperature measuring instrument is suitable for wireless temperature measurements in various applications. With the free testo Smart App, all measurement data can be logged and results sent as PDF or CSV files.
- 1 measuring channel
- Automatic Bluetooth® connection to smartphones, tablets or testo measuring devices
- Secure fixation of the pluggable measuring probes

Scope of supply: Thermometer 915i, air probe, immersion/penetration probe, surface probe, stoage bag testo Smart Case, batteries, calibration protocol

Temperature range

Immersion/penetration probe:	-50 ... 400 °C
Air probe:	-50 ... 400 °C
Surface probe:	-50 ... 350 °C

Accuracy

Immersion/penetration probe:	±1.0 °C (-50 ... 100 °C), ±1 % of measurement value (remaining range)
Air probe:	±1.0 °C (-50 ... 100 °C), ±1 % of measurement value (remaining range)
Surface probe:	±1.0 °C + 1 % of measurement value
Resolution:	0.1 °C
Sensor:	Type K (NiCr-Ni)
Power supply:	3 x AAA

Description	PK	Cat. No.	Price
			EUR
testo 915i Set	1	4.681 906	**174,20**

Infrared thermometer, DualTemp Pro, with penetration probe

DOSTMANN electronic GmbH

- Waterproof
- Non-contact measurement and core temperature measurement in one device
- Double display: both measured values in view
- Large temperature range:
- Infrared: -33 to 250 °C
- Insertion probe: -55 to 250 °C
- Max, min, hold function
- Incl. calibration certificate

Resolution:	0.2 °C
Accuracy (IR):	-33 °C to 0 °C ±1.0 °C ±0.1/1 °C
	0 °C to +65 °C ±1.0 °C
	+65 °C to +200 °C ±1.5 %
Accuracy (penetration probe):	below -5 °C ±1.0 °C
	-5 °C to +65 °C ±0.5 °C
	above +65 °C ±1 %
Operating temperature:	0 to 50 °C
Power supply:	Lithium cell CR2032

Type	PK	Cat. No.	Price
			EUR
DualTemp Pro	1	9.851 023	**74,50**

Thermometer testo 440 Laboratory kit

Laboratory kit with Pt100 probe for reliable and precise temperature measurement and documentation. Particularly suitable for use in corrosive media due to the laboratory probe, whose coating is made of the tried-and-tested DURAN® laboratory glass.
- Internal data storage and USB port for flexible data export
- Parallel connection of up to three probes possible: one Bluetooth® probe, one wired probe and one temperature probe with thermocouple type K connection
- Versatile, expandable with an extensive selection of digital probes

Scope of supply: Measuring instruments, 3x AA batteries, USB cable and calibration protocol, glass-coated digital Pt100 laboratory probe, basic case for testo 440 and 1 probe

Specifications

Temperature measuring range (NTC):	-50 ... +400 °C
Accuracy:	±0.3 °C (-50 ... 300 °C)
	±0.4 °C (300.01 ... 400 °C)
Resolution:	0.01 °C
Memory:	7500 measurement protocols
testo 440	
Operating/storage temperature:	-20 ... +50 °C
Power supply:	3 x Mignon, Type AA
Pt100 probe	
Operating/storage temperature:	-5 ... 45 °C/-20 ... 60 °C
Cable length:	1.6 m
Dimensions (L x Ø):	200 x 6 mm

Type	PK	Cat. No.	Price
			EUR
testo 440 Laboratory kit	1	6.314 325	**560,70**

LLG-Digital pocket thermometer Type 12050

Measuring range -50 to +150 °C, accuracy ±1 °C. Probe made of stainless steel, 120 x 3.5 mm, with protective plastic sleeve and clip, with battery 1 x 1.5 V (LR44).

Type	PK	Cat. No.	Price
			EUR
LLG-Digital pocket thermometer Type 12050	1	9.236 706	**21,10**

pH meter FiveEasy™ pH F20/ FiveEasy Plus™ pH FP20

- **Intuitive and ergonomic at an attractive price**
- **Compact design**

F20-Standard Kit

FiveEasy™ and FiveEasy™ Plus benchtop meters provide high quality pH/mV measurements with the simple click of a button.
- Large, easy to read and easy to understand display with all information visible at a glance
- Five self-explanatory buttons making operation simple and easy
- Fast and easy connectivity for simple and secure data transfer (FP only)

Scope of supply:
F20-Meter: Meter with CD operating instructions, QuickGuide, declaration of conformity, test certificate, power supply

FP20-Meter Standard Kit: Meter with CD operating instructions, QuickGuide, declaration of conformity, test certificate, power supply plus plastic LE438 3-in-1 pH electrode, 1 each x 4.01 pH, 7.00 pH, 9.21 pH buffer sachets

FP20-Bio: as FP20 Standard-Kit, plus glass LE410 3-in-1 pH electrode, 1 each x 4.01 pH, 7.00 pH, 9.21 pH buffer sachets

Specifications
Measuring range (Accuracy)

pH F20/FP20:	0.00 ... 14.00 pH/-2.00 ... 16.00 pH (±0.01 pH)
mV:	-2000 ... 2000 mV (±1 mV)
Temperature F20/FP20:	0 ... 100 °C (0.5 °C)/-5 ... 105 °C (0.3 °C)
Input:	BNC, Cinch (NTC 30 kΩ)
Temperature compensation:	ATC and MTC
Power supply:	100 ... 240 V/50 ... 60 Hz/12 V DC
Calibration F20:	3 points, linear, 4 predefined buffer groups
Calibration FP20:	5 points, linear/segmented, 4 predefined buffer groups

FP20 only

Memory:	200 measurements
Interface:	RS232, USB, Reference input

Type	PK	Cat. No.	Price
			EUR
F20-Standard Kit	1	6.280 101	**584,80**
FP20-Standard Kit	1	6.280 103	**786,90**
FP20-Bio	1	6.280 104	**808,40**

LLG-Indicator paper sticks

For pH determination. Box of 100 indicator paper sticks of 80 mm length.

Range	PK	Cat. No.	Price
pH			**EUR**
5.5 ... 9	100	6.322 832	**4,20**
0 ... 6	100	6.322 833	**4,70**

Pocket tester Eutech™ pHTestr 30, waterproof

Waterproof, rugged pH testers with one hand operation for general and industrial purposes.

- Large LCD display
- Replaceable, rugged sensor
- Double junction sensor
- Push-Button calibration with up to 3 points and Auto-Buffer recognition
- Hold function, the last measured value remains on the display
- Up to 500 hours operation time with single battery set

Specifications

pH calibration points:	3 points
Temperature range:	0 ... 50 °C
Resolution:	0.1 °C
Accuracy:	±0.5 °C
Operating temperature:	0 ... 50 °C
Temperature compensation:	ATC
Power supply:	4 x 1.5 V A76 batteries
IP code:	IP 67

Type	PK	Cat. No.	Price
			EUR
pHTestr 30	1	6.222 767	**139,50**

LLG pH electrode

Low maintenance combination electrode with integrated temperature sensor. Robust design with plastic shaft, protective basket and fixed cable connection. Made in Germany.

*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.

Specifications

Temperature range:	0 ... 80 °C
Temperature sensor:	NTC 30 kΩ
pH range:	0 ... 14
Diaphragm:	2 x ceramic || *Fibre
Membrane shape:	Cylindrical
Electrolyte:	Gel, 3M
Min. immersion depth:	15 mm
Cable length:	1 m
Length/Ø:	120/12 mm
Electrode connection:	BNC
Temperature sensor connection:	Cinch 3 mm

Type	PK	Cat. No.	Price
			EUR
LLG pH electrode	1	6.263 602	**89,50**
LLG-pH electrode with gel electrolyte*	1	4.681 924	**151,70**

Conductivity meter
ProfiLine Cond 3310

Convenient and versatile conductivity meter with built-in time-controlled data logger. With backlit graphic display. Waterproof and robust. For measuring conductivity, resistivity, salinity and TDS. Large selection of connectable measuring cells, extended cell constant selection, automatic and manual temperature compensation (can also be switched off) with linear and non-linear function for ultrapure water and natural water according to EN 27 888.

Specifications:
Measuring ranges/Resolution
Conductivity: 0.00 µS/cm ... 19.99 µS/cm (when K=0.1 cm⁻¹)
0.000 µS/cm ... 1.999 µS/cm (when K=0.01 cm⁻¹)
TDS: 0 ... 1999 mg/l, 0.0 ... 199.9 g/l
Spec. resistance: 0.0 ... 999 MΩ/cm
Memory: 5000 records (measured value, temperature, date, time, ID)

Type	Description	PK	Cat. No.	Price
				EUR
Cond 3310	Meter only	1	9.774 409	**814,30**
Cond 3310 Set 1	Case set including TetraCon 325 and accessories	1	9.774 400	**1.249,90**

Conductivity meter
inoLab® Cond 7310

Cond 7310

Conductivity measurement with reliable documentation, also with built-in printer on request. The inoLab® Cond 7310 can be connected to a wide range of standard and special conductivity measuring cells and has automatic and manual temperature compensation (can also be switched off for measurements according to pharmacopoeia) with linear and non-linear functions for ultrapure water and natural water according to EN 27 888. The scope of delivery includes the device, stand, data transmission cable and plug-in power supply unit.

Specifications
Ranges: All values ±1 digit
Conductivity
additional: 0.00 ... 1000 mS/cm ±0.5 % of measured value
0.000 ... 1.999 µS/cm, K= 0.01 cm⁻¹
0.00 ... 19.99 µS/cm, K= 0.1 cm⁻¹
Spcific resistance: 0.00 ... 20 MOhm cm
Salinity: 0.0 ... 70.0 (acc. IOT)
TDS: 1 ... 1999 mg/l, 0 ... 199.9 g/l
Temperature: -5.0 ... 105.0 °C ±0.1 °C
Cell constants: Fix 0.01 cm⁻¹, calibratable 0.450...0.500 cm⁻¹,
0.800 ... 0.880 cm⁻¹, calibratable
0.09... 0.110 cm⁻¹, 0.250 ... 25.0 cm⁻¹
Calibration: 1 point
T$_{ref}$: 20 °C/25 °C
Calibration memory: Up to 10 calibrations recallable
Display: LCD Graphic, backlit
Memory: Manual 200/5000 automatic
Logger: Manual/time controlled
Interface: Mini USB-B
Power supply: Universal power supply,
100V ... 240 V, 50/60 Hz,
4 x 1.5 V AA or 4 x 1.2 V NiMH

Type	Description	PK	Cat. No.	Price
				EUR
Cond 7310	Meter incl. accessories	1	9.920 114	**1.267,10**
Cond 7310 Set 1	Meter incl. TetraCon® 325 and accessories	1	9.920 115	**1.654,30**
Cond 7310P	Meter with built-in printer and accessories	1	9.920 117	**1.695,70**

Conductivity meter SD 325 CON

The portable instrument with data logger is ideal for determining electrical conductivity in aqueous media.
- Automatic recognition of conductivity standards
- Auto hold function
- Selectable reference temperature (20 °C/25 °C)
- Automatic temperature compensation
- Data transfer and evaluation via software possible

Specifications
Conductivity: 0.000 ... 1000.0 mS/cm
Temperature: -5.0 ... 100.0 °C
TDS: 0.000 ... 5000 mg/l
Resistance: 0.000 ... 50.0 MOhm/cm
Salinity: 0.0 ... 70.0 PSU
Datalogger: 10000 Data sets automatically
1000 Data sets manually
Interface: USB
Dimensions (W x D x H): 100 x 164 x 37 mm
Weight: 302 g
Power supply: 2 x AAA batteries (incl.)
IP code: IP 67

Scope of supply:
SD 325 CON (Set 1): Conductivity meter, protective covering, transport case, 4-pol graphite electrode (diam. 12 mm, < 200 mS/cm)
SD 325 CON (Set 2): as set 1 but with, 4-pol graphite electrode (diam. 16 mm, < 1000 mS/cm), conductivity standards, batteries, manual
SD 325 CON (Set 3): as set 1 but with, 2-pol stainless steel electrode (diam. 10 mm, < 200 µS/cm, pure water), flow through cell for pure water

Type	PK	Cat. No.	Price
			EUR
SD 325 CON (Set 1)	1	4.678 226	**812,00**
SD 325 CON (Set 2)	1	4.678 227	**926,40**
SD 325 CON (Set 3)	1	4.678 228	**926,40**

Analytical balance ABP

KERN

This new generation of analytical balances combines the highest level of precision with large weighing capacities. Thanks to the new Single-Cell Generation, the weighing result is displayed in a fraction of the time with comparable models. Together with the intuitively structured menu, this means that you can work efficiently and rapidly.
- OLED display
- Navigation pad for super quick navigating through the menus
- Automatic internal adjustment in the case of a change in temperature ≥1 °C or timecontrolled every 4 h, guarantees high degree of accuracy and makes the balance independent of its location of use
- The minimum weight of sample can be manually stored in the balance or automatically calculated, with warning message when the weighing is below this value
- Dosage aid: High-stability mode and other filter settings can be selected
- Simple recipe weighing and documenting with a combined tare/print function
- Menu language DE, GB
- Automatic data output to the PC/printer each time the balance is steady
- USB data interfaces and RS-232
- Large glass draught shield with 3 sliding doors for easy access to the items being weighed
- Incl. protective working cover

Specifications
Overall dimensions, incl. draught shield (W x D x H):	213 x 407 x 344 mm
Weighing space (W x D x H):	166 x 156 x 220 mm
Net weight:	8 kg
Power supply:	220 ... 240 V AC, 50 Hz

Type	Weighing range	Readability	Plate diam.	PK	Cat. No.	Price
	g	mg	mm			EUR
ABP 100-5M	135	0.01	91	1	6.321 067	**2.770,90**
ABP 200-5M	220	0.01	91	1	6.321 068	**3.942,70**
ABP 100-4M	120	0.1	91	1	4.667 748	**1.540,40**
ABP 200-4M	220	0.1	91	1	4.667 749	**1.835,60**

LLG-Sample dishes, Aluminium

LLG LABWARE

High quality aluminium sample dishes, for moisture determination.

Description	Diam.	Height	PK	Cat. No.	Price
	mm	mm			EUR
Sample dishes	90	7	80	6.282 670	**13,30**
Sample dishes	100	7	80	6.265 408	**13,50**
Sample dishes with rim	100	7	80	6.281 537	**13,50**

Portable Balances, Scout® SKX

- **Very robust due to integrated overload protection**
- **Space-saving design**

OHAUS

- Superior overload protection and practical stackable design for convenient storage
- Bright backlit LCD and 4 button operation make the new scout easy to see and use
- Fast weighing speed and high resolution delivers repeatable and reliable results
- Communication: Optional RS232, USB host, USB device, Bluetooth or Ethernet
- Construction: ABS housing, stainless steel pan, replaceable in-use cover
- Design Features: Fast stabilization time, menu lock switch, stackable design, security slot, integral weigh below hook for below balance weighing applications, transportation lock, removable stainless steel weighing platform, stability indicator, overload and underload indicators, low battery indicator, auto shut-off

Type	Capacity	Readability	Plate dimensions	PK	Cat. No.	Price
	g	g	mm			EUR
SKX123	120	0.001	diam. 93	1	6.281 344	**350,00**
SKX222	220	0.01	diam.120	1	6.281 345	**260,00**
SKX422	420	0.01	diam. 120	1	6.281 346	**300,00**
SKX622	620	0.01	diam. 120	1	6.281 347	**250,00**
SKX1202	1200	0.01	170 x 140	1	6.281 348	**399,00**
SKX2202	2200	0.01	170 x 140	1	6.281 349	**435,00**
SKX2201	2200	0.1	170 x 140	1	6.281 352	**258,00**
SKX8200	8200	1	170 x 140	1	6.281 354	**228,00**

Calibration weights, class E2, compact shape

KERN

Stainless steel, polished. Plastic boxes with internal foam support or wooden boxes and internationally recognised DAkkS certificates are available separately.

Weight	Accuracy	PK	Cat. No.	Price
g	± mg			EUR
1	0.03	1	6.233 989	**31,80**
2	0.04	1	6.234 003	**31,80**
5	0.05	1	7.639 008	**32,60**
10	0.06	1	7.653 221	**33,40**
20	0.08	1	7.653 222	**38,30**
50	0.10	1	6.233 196	**41,60**
100	0.16	1	6.233 990	**46,50**
200	0.30	1	6.233 991	**54,60**
500	0.80	1	6.233 992	**88,00**
1000	1.60	1	4.652 699	**129,60**
2000	3.00	1	7.653 223	**224,10**
5000	8.00	1	7.671 083	**370,80**

You can find our complete range on our website.

Universal centrifuge Z 307

HERMLE
LABORTECHNIK

The small universal centrifuge Z 307 is suitable for use in clinical, research and industrial laboratories.

- Maintenance-free induction drive
- Microprocessor control with LCD display
- "Quick" key for short runs
- Memory for 99 complete runs, incl. rotor type
- Lid lock
- Automatic rotor identification system with overspeed protection
- Active imbalance identification and cut-off (rotor-specific)
- Audible signal at the end of each run
- Imbalance tolerant drive
- Manufactured according to international safety regulations, e.g. IEC 61010
- Easy rotor change
- Air cooling
- Stainless steel chamber

Please order rotors separately.

Specifications
Max. RCF: 18624 x g
Max. speed: 14000 rpm
Max. capacity: 4 x 200 ml
Timer: 59 min 50 sec, 10 sec increments/ 99 h 59 min, 1 min increments
Dimensions (W x D x H): 355 x 474 x 330 mm
Weight: 30 kg
Type of auxiliary energy: 230 V, 50 ... 60 Hz

Type	PK	Cat. No.	Price
			EUR
Z 307	1	6.321 971	**2.499,50**

Rotors for Centrifuges Z 307

Type	PK	Cat. No.	Price
			EUR
Angle rotor for max. 24 x 1.5/2.0 ml, aerosol tight	1	4.665 882	**685,50**
Angle rotor for max. 30 x 15 ml (round bottom) or 20 x 15 ml (conical)	1	9.945 940	**1.023,20**
Angle rotor for 12 x 5 ml, with lid	1	9.945 945	**987,50**
Angle rotor for max. 12 x 15 ml	1	9.945 950	**566,20**
Angle rotor for max. 6 x 50 ml	1	9.945 951	**604,90**

Microlitre centrifuges, Heraeus™ Pico™ and Fresco™

Thermo SCIENTIFIC

- **Acceleration of up to 17,000 x g in only 12 sec**
- **Small footprint**
- **Aerosol-tight**

- High Productivity - Fast acceleration and deceleration time (12 seconds) means you can process more samples in less time
- User-friendly - fast and simple changes of rotors and tubes by a new user friendly design
- Safe - singular "Click CLOSE" - cap system for aerosol-tight inclusion of the biological substances guarantees the security of the user
- Comfortable - simple fast attitude of the run parameters and a clearly arranged display
- Multifunctional - selecting it from a broad pallet of rotors, which includes a Biocontainment rotor, a PCR rotor and a micro litre rotor with high sample capacity
- incl. 24 x 1.5/2.0 ml rotor

Type	Max. rcf x g	Max. speed rpm	Dimensions (W x D x H) mm	PK	Cat. No.	Price EUR
Pico™ 17	17000	13300	243 x 352 x 225	1	9.945 100	**1.839,20**
Fresco™ 17	17000	13300	295 x 445 x 330	1	9.945 101	**4.272,50**

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e-mail: llg@saint-tech.lv

partner of the
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Security Analytics Industry Nano Technics

LABORTOPS

Air purifier ap360

grant

- **Destroys DNA and RNA in bacteria and viruses by UV air sterilisation.**
- **Removes aerosols, pollen, dust and other particles**

The Air purifier ap360 protects from airborne infection by removing aerosols and also cleans the air from dust, pollen and many other allergens. Suitable for personal protection in laboratories, medical settings and production rooms.

- Efficient 360° air recycling of a 90 m³ room four times in an hour, eliminating 99.95 % of known viruses (including coronaviruses)
- With a medical grade, high capacity HEPA13 filter (acc. to EN 14644)
- 2 powerful UVC lamps for destroying bacteria and viruses by damaging their RNA and DNA, which avoids replication
- Ozone free
- Low noise level
- With lockable castors for safe and easy handling

Specifications

Filters:	Pre-filter H13 (EN 1822)
UV radiation source:	2 UV lamps, 55 W bactericidal, TU PL-L 55W UV-C
UV irradiance:	156 uW/cm²/s at 1 m (Philips)
Radiation type:	UV (λ = 253.7 nm)
UV lamp service life	9000 h
Air flow:	360 m³/h
D90 dose:	280 J/m²
Timer:	1 min ... 24 h, continuous
Noise level:	max. 66 db
Dimensions (W x D x H):	350 x 350 x 1050 mm
Weight:	13.4 kg
Power supply:	120/230 V, 50/60 Hz

Type	PK	Cat. No.	Price
			EUR
ap360	1	4.679 869	**3.118,10**

Service Pack (Cat. No. 6.323 287) for replacing HEPA filters and UV lamps can be found online.