

LABORTOPS

valid until 31.03.2024

Digital dry bath LLG-uniBLOCKTHERM

- Block with thermal beads
- Large blocks selection
- Timed and continuous operation



Page 3

Laboratory Bottles	2	Filtration	20
Heating	3	Personal Protection	21 - 22
Volumetry	4	Laboratory Furniture	23
Glassware	5 - 6	Cleanroom	24
Liquid Handling	7 - 8	Sample Preparation / Sampling	25 - 26
Cell Culture	9 - 10	pH Measurement	27
Genomics	11 - 12	Temperature Measurement	28
Microbiology	13 - 14	Timer	29
Optics	15 - 16	Weighing	30
Chromatography	17 - 18	Shaking and Mixing	31
General Laboratory Supply	19	Magnetic Stirrer	32



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



For the storage and transport of photosensitive substances. With easy-to-read graduation and large labelling field for easy identification. UV protection up to approx. 500 nm wavelength.

- ISO 4796-1
- USP standard
- Retrace code
- Autoclavable

-99%

Capacity	Diam.	Height	Neck thread	PK	Cat. No.	Price	Now
ml	mm	mm	GL			EUR	EUR
50	46	91	32	1	7.671 498	99,99	88,99
100	56	105	45	1	6.262 932	99,99	88,99
250	70	143	45	1	9.071 961	99,99	88,99
500	86	181	45	1	6.259 101	99,99	88,99
1000	101	230	45	1	6.259 102	99,99	88,99
2000	136	265	45	1	6.259 797	99,99	88,99

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



With blue PP screw cap and pouring ring.

-99%

Capacity	Diam.	Height with cap	Neck thread	PK	Cat. No.	Price	Now
ml	mm	mm	GL			EUR	EUR
50	46	91	32	1	9.072 000	99,99	88,99
100	56	105	45	1	9.072 001	99,99	88,99
250	70	143	45	1	9.072 002	99,99	88,99
500	86	181	45	1	9.072 005	99,99	88,99
1000	101	230	45	1	9.072 010	99,99	88,99
2000	136	265	45	1	9.072 007	99,99	88,99

Baffled Wide-mouth bottles, GLS 80®, DURAN®, with screw cap



The wide-neck chicane bottle has three vertical chicanes on the inner walls that interrupt radial vortex movement.

- Compatible with DURAN® GLS 80® stirred reactors as well as other magnetic stirrers.
- Made of DURAN® borosilicate glass 3.3
- The generous inner diameter of the GLS 80® wide neck of 65 mm allows easy access to the bottle contents
- The baffles are recessed into the side walls of the glass and can be easily cleaned due to their continuous, smooth surface
- With pouring ring

-99%

Capacity	Diam.	Height	PK	Cat. No.	Price	Now
ml	mm	mm			EUR	EUR
250	95	105	1	6.270 534	99,99	88,99
500	101	152	1	6.270 535	99,99	88,99
1000	101	222	1	6.270 536	99,99	88,99

Laboratory Bottle system DURAN® YOUTILITY



- Specially shaped gripping zones on both sides of the bottle for easier and safer handling
- With the new YOUTILITY bottle thread opening or closing the bottle is significantly faster. The thread is fully compatible with DIN GL 45 closures and other accessories
- Nominal volume is shown at the top of the easy-to-read graduation scale for fast determination of the volumes
- Glass bottle body is moulded from the tried and tested DURAN® borosilicate 3.3 Type 1 neutral glass. DURAN® glass offers very good chemical resistance and high temperature resistance
- The YOUTILITY bottle has an integrated Retrace Code to allow full product traceability. The lot specific certificate of conformance is available at: www.duran-group.com
- Each DURAN® YOUTILITY bottle is supplied as a complete system, with a pouring ring (cyan polypropylene) and a GL 45 cap (cyan polypropylene)

-99%

Capacity	Ext. diam.	Height	PK	Cat. No.	Price	Now
ml	mm	mm			EUR	EUR
125	55	124	4	9.071 679	99,99	88,99
250	66	158	4	9.071 678	99,99	88,99
500	78	193	4	9.071 677	99,99	88,99
1000	93	253	4	9.071 676	99,99	88,99

Digital dry bath LLG-uniBLOCKTHERM



Suitable for use in microbiological, histological, clinical, industrial and environmental laboratories. Various types of optional heating blocks are available as accessories for the LLG-uniBLOCKTHERM.

- Digital control with LED display
- Can be used up to 120 °C
- For timer and continuous operation
- Can be used with different heating blocks
- 1 x block unit
- With overheating protection

Scope of supply: LLG-uniBLOCKTHERM, 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
Warranty:	3 years

-99%

Type	Plug type	PK	Cat. No.	Price	Now
				EUR	EUR
LLG-uniBLOCKTHERM	EU	1	6.263 460	99,99	88,99
LLG-uniBLOCKTHERM	UK	1	6.263 461	99,99	88,99

Accessories for LLG-uniBLOCKTHERM



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

-99%

Description	PK	Cat. No.	Price	Now
			EUR	EUR
Heating block 40 x 1.5 ml	1	6.263 464	99,99	88,99
Heating block 40 x 2.0 ml	1	6.263 465	99,99	88,99
Heating block with aluminium beads	1	6.263 557	99,99	88,99
Aluminium beads	1	6.263 558	99,99	88,99
Heating block for aluminium beads	1	6.263 559	99,99	88,99

LLG-Heat/Cold hand protector "TempHand", silicone rubber



Gripper made of red silicone rubber to protect hands when handling hot or cold vessels. Suitable for temperatures from -50 °C up to 250 °C. Two grip openings for quick and easy use. One size fits all, can be used on both sides. With non-slip grip surface.

-99%

Description	PK	Cat. No.	Price	Now
			EUR	EUR
LLG-Heat/Cold hand protector "TempHand"	1	6.322 889	99,99	88,99

Heating ovens with natural convection



For drying and heating in research and quality control. With ramp function, optical temperature alert and delayed power-off.

- APT.line™ preheating chamber technology
- Natural convection with homogenous temperature distribution
- Adjustable exhaust air flap
- Digital controller with timer
- Easy and ergonomical door opening
- Class 2 integrated independent adjustable temperature safety device (DIN 12880) with visual alarm

Scope of delivery: Heating oven, 1 chrome plated rack incl. shelf supports

ED-S 56 Solid.Line

Specifications

Temperature range:	RT + 10 °C ... 250 °C
Temperature variation at 150 °C:	±2.8 °C
Heating-up time to 150 °C:	60 min
Permitted load:	30 kg
Weight:	38 kg
Power supply:	230 V, 50/60 Hz

-99%

Type	PK	Cat. No.	Price	Now
			EUR	EUR
ED-S 56	1	4.665 042	99,99	88,99

ED-S 115 Solid.Line

Specifications

Temperature range:	RT + 7 °C ... 250 °C
Temperature variation at 150 °C:	±2.8 °C
Heating-up time to 150 °C:	55 min
Interior volume:	118 l
Internal dimensions:	550 x 390 x 550 mm
External dimensions:	745 x 565 x 735 mm
Permitted load:	75 kg
Max. shelves:	5
Weight:	54 kg
Power supply:	230 V, 50/60 Hz

-99%

Type	PK	Cat. No.	Price	Now
			EUR	EUR
ED-S 115	1	4.667 816	99,99	88,99



Measuring cylinders, borosilicate glass 3.3, tall form, class A, blue graduated



With spout, tall form. BLAUBRAND®. To DIN EN ISO 4788. DE-M marking with works certified batch number. Calibrated to contain (IN). All BLAUBRAND® cylinders are delivered with batch number and batch certificate.

-99%

Capacity	Grad.	Tolerance	Height	PK	Cat. No.	Price	Now
ml	ml	± ml	mm			EUR	EUR
10	0.2	0.10	140	1	9.274 108	99,99	88,99
25	0.5	0.25	170	1	9.274 120	99,99	88,99
50	1	0.5	200	1	9.274 128	99,99	88,99
100	1	0.5	260	1	9.274 138	99,99	88,99
250	2	1.0	335	1	9.274 148	99,99	88,99
500	5	2.5	365	1	9.274 154	99,99	88,99
1000	10	5.0	465	1	9.274 162	99,99	88,99
2000	20	10	505	1	9.274 164	99,99	88,99

Measuring cylinders, PMP, tall form, class A, blue graduations



Clear. Exposure to temperatures up to 121 °C (autoclaving) will not cause permanently exceeded error limits. Supplied with batch number and one batch certificate per packing unit.

- DIN 12681 and ISO 6706
- DE-M marking

-99%

Capacity	Grad.	Tolerance	Height	PK	Cat. No.	Price	Now
ml	ml	± ml	mm			EUR	EUR
10	0.2	0.10	145	1	9.274 790	99,99	88,99
25	0.5	0.25	170	1	9.274 791	99,99	88,99
50	1	0.5	200	1	9.274 792	99,99	88,99
100	1	0.5	250	1	9.274 793	99,99	88,99
250	2	1.0	315	1	9.274 794	99,99	88,99
500	5	2.5	360	1	9.274 795	99,99	88,99
1000	10	5	440	1	9.274 796	99,99	88,99
2000	20	10	535	1	9.274 797	99,99	88,99

Measuring cylinders, borosilicate glass 3.3, low form, class B, amber graduations



- SILBERBRAND Eterna
- DIN EN ISO 4788
- With spout and hexagonal foot
- Calibrated to contain IN

-99%

Capacity	Grad.	Tolerance	Height	PK	Cat. No.	Price	Now
ml	ml	± ml	mm			EUR	EUR
10	1	0.3	90	1	9.274 608	99,99	88,99
25	1	0.5	115	1	9.274 620	99,99	88,99
50	2	1	145	1	9.274 628	99,99	88,99
100	2	1	165	1	9.274 638	99,99	88,99
250	5	2	195	1	9.274 648	99,99	88,99
500	10	5	250	1	9.274 654	99,99	88,99
1000	20	10	285	1	9.274 662	99,99	88,99
2000	50	20	340	1	9.274 664	99,99	88,99

Measuring cylinders, borosilicate glass 3.3, tall form, class B, amber graduation



High form. SILVER BRANDY ETERNA. DIN EN ISO 4788. With spout and hexagonal base in glass. Adjusted to IN.

-99%

Capacity	Grad.	Tolerance	Height	PK	Cat. No.	Price	Now
ml	ml	± ml	mm			EUR	EUR
10	0.2	0.15	140	1	9.274 008	99,99	88,99
25	0.5	0.4	170	1	9.274 020	99,99	88,99
50	1	0.8	200	1	9.274 028	99,99	88,99
100	1	0.8	260	1	9.274 038	99,99	88,99
250	2	1.5	335	1	9.274 048	99,99	88,99
500	5	4	365	1	9.274 054	99,99	88,99
1000	10	8	465	1	9.274 062	99,99	88,99
2000	20	15	505	1	9.274 064	99,99	88,99

Sealing films, BRAND Seal-R-film™



The sealing film can be stretched to three times its original length. Lot identification of each roll.

-99%

Width	Length	Thickness	Temp. range	PK	Cat. No.	Price	Now
mm	m	mm	°C			EUR	EUR
50	75	0,14 ± 0,02	-20 ... 46	1	9.170 022	99,99	88,99
100	38	0,14 ± 0,02	-20 ... 46	1	9.170 021	99,99	88,99
100	75	0,14 ± 0,02	-20 ... 46	1	9.170 023	99,99	88,99
500	15	0,14 ± 0,02	-20 ... 46	1	9.170 024	99,99	88,99



New assortment



LLG-Three-neck round bottom flasks with standard ground joint, borosilicate glass 3.3, parallel side necks



Side necks are parallel to the centre neck. With white inscription. Acc. to DIN 12392, *DIN 12392.

-99%

Nominal capacity ml	Height mm	Centre neck NS	Lateral neck	PK	Cat. No.	Price EUR	Now EUR
250*	140	29/32	NS14/23	1	4.686 166	99,99	88,99
250	140	29/32	NS29/32	1	4.686 167	99,99	88,99
500*	163	29/32	NS14/23	1	4.686 168	99,99	88,99
500	163	29/32	NS29/32	1	4.686 169	99,99	88,99
1000*	200	29/32	NS14/23	1	4.686 170	99,99	88,99
1000	200	29/32	NS29/32	1	4.686 171	99,99	88,99
2000	240	29/32	NS29/32	1	4.686 172	99,99	88,99

Pear shape flasks with standard ground joint, borosilicate glass 3.3



With standard ground joint and white inscription.

-99%

Nominal capacity ml	Dimensions (dia. x H) mm	Ground size NS	PK	Cat. No.	Price EUR	Now EUR
10	31 x 75	14/23	1	4.686 145	99,99	88,99
25	42 x 90	14/23	1	4.686 146	99,99	88,99
50	51 x 100	14/23	1	4.686 147	99,99	88,99
50	51 x 100	29/32	1	4.686 148	99,99	88,99
100	64 x 130	14/23	1	4.686 149	99,99	88,99
100	64 x 130	29/32	1	4.686 150	99,99	88,99
250	85 x 150	14/23	1	4.686 151	99,99	88,99

LLG-Separating funnel, conical, borosilicate glass 3.3



Separating funnel with PTFE stopcock.

- DIN ISO 4800
- With standard ground joint and stopper

-99%

Nominal capacity ml	Bore mm	Ground size NS	PK	Cat. No.	Price EUR	Now EUR
50	2.5	19/26	1	4.686 257	99,99	88,99
100	2.5	19/26	1	4.686 258	99,99	88,99
250	4.0	29/32	1	4.686 259	99,99	88,99
500	4.0	29/32	1	4.686 260	99,99	88,99
1000	6.0	29/32	1	4.686 261	99,99	88,99
2000	6.0	29/32	1	4.686 262	99,99	88,99

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



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

-99%

Nominal capacity ml	Dimensions (dia. x H) mm	Ground size NS	PK	Cat. No.	Price EUR	Now EUR
50	51 x 85	29/32	2	4.686 119	99,99	88,99
100	64 x 103	14/23	2	4.686 120	99,99	88,99
100	64 x 103	29/32	2	4.686 121	99,99	88,99
250	85 x 130	29/32	2	4.686 122	99,99	88,99
500	105 x 160	29/32	2	4.686 123	99,99	88,99
1000	131 x 187	29/32	1	4.686 124	99,99	88,99
2000	166 x 230	29/32	1	4.686 125	99,99	88,99



New assortment



LLG-Filter flasks with nozzle, borosilicate glass 3.3



Filter flask with side-arm made of glass. With heavy wall for vacuum applications.

- Erlenmeyer shape
- White graduation and inscription

-99%

Nominal capacity ml	PK	Cat. No.	Price EUR	Now EUR
100	1	4.686 173	99,99	88,99
250	1	4.686 174	99,99	88,99
500	1	4.686 175	99,99	88,99
1000	1	4.686 176	99,99	88,99
2000	1	4.686 177	99,99	88,99

LLG-Condenser acc. to Liebig, borosilicate glass 3.3



For condensing vapours. Water connection with glass olives or PP olives. With standard ground cone and socket. Acc. to DIN 12576.

-99%

Description	Effective length mm	Cone NS	Socket NS	PK	Cat. No.	Price EUR	Now EUR
PP olive	250	29/32	29/32	1	4.686 186	99,99	88,99
PP olive	400	29/32	29/32	1	4.686 187	99,99	88,99
Glass olive	250	29/32	29/32	1	4.686 188	99,99	88,99
Glass olive	400	29/32	29/32	1	4.686 189	99,99	88,99

LLG-Powder funnel with NS cone, borosilicate glass 3.3



Powder funnel made of borosilicate glass 3.3 with NS cone

-99%

Funnel diam. mm	Ground size NS	PK	Cat. No.	Price EUR	Now EUR
60	14/23	2	4.686 180	99,99	88,99
80	19/26	2	4.686 181	99,99	88,99
100	24/29	2	4.686 182	99,99	88,99
120	29/32	2	4.686 183	99,99	88,99

LLG-Condenser acc. to Allihn, borosilicate glass 3.3



For condensing vapours. Water connection with glass olives or PP olives. With standard ground cone and socket. Acc. to DIN 12576.

-99%

Description	Effective length mm	Cone NS	Socket NS	PK	Cat. No.	Price EUR	Now EUR
Glass olive	250	29/32	29/32	1	4.686 194	99,99	88,99
Glass olive	400	29/32	29/32	1	4.686 195	99,99	88,99
PP olive	250	29/32	29/32	1	4.686 196	99,99	88,99
PP olive	400	29/32	29/32	1	4.686 197	99,99	88,99

Multichannel microlitre pipettes Acura® manual 855, variable



- 8- and 12-channel models up to 350µl
- Precision digital display visible at all times
- Adjustable tip ejector fitting most tips
- Integrated user calibration system
- Autoclavable at 121 °C/250 °F

-99%

Channels	Capacity	Increments	Tip	PK	Cat. No.	Price	Now
	µl	µl	µl			EUR	EUR
8	0,5 - 10	0,01	10	1	9.411 630	99,99	88,99
8	2 - 20	0,01	20	1	6.323 679	99,99	88,99
8	5 - 50	0,1	200	1	9.411 631	99,99	88,99
8	10 - 100	0,1	200	1	6.286 775	99,99	88,99
8	20 - 200	0,2	200	1	9.411 632	99,99	88,99
8	40 - 350	0,4	350	1	9.411 633	99,99	88,99
12	0,5 - 10	0,01	10	1	9.411 634	99,99	88,99
12	5 - 50	0,1	200	1	9.411 635	99,99	88,99
12	20 - 200	0,2	200	1	9.411 636	99,99	88,99
12	40 - 350	0,4	350	1	9.411 637	99,99	88,99

LLG-Pasteur Pipettes, PE



Manufactured from transparent PE. Sterile or non-sterile. Graduated.

-99%

Type	Capacity	Length	PK	Cat. No.	Price	Now
	ml	mm			EUR	EUR
non-sterile	1	150	500	4.672 670	99,99	88,99
non-sterile	3	150	500	4.672 671	99,99	88,99
sterile, single wrapped	1	150	1000	9.401 085	99,99	88,99
sterile, single wrapped	3	150	1000	9.401 084	99,99	88,99

LLG single channel microliter pipettes, variable



Each pipette is individually tested and calibrated twice. Certificate enclosed.

- Available with fixed or variable volume setting
- Easy maintenance and calibration
- Colour coding of the individual volumes

-99%

Capacity	Increments	Colour code	PK	Cat. No.	Price	Now
µl	µl				EUR	EUR
0.1 - 2.5	0.05	grey	1	9.280 000	99,99	88,99
0.5 - 10	0.1	grey	1	9.280 001	99,99	88,99
2 - 20	0.5	grey	1	9.280 002	99,99	88,99
10 - 100	1.0	yellow	1	9.280 003	99,99	88,99
20 - 200	1.0	yellow	1	9.280 004	99,99	88,99
100 - 1000	5.0	blue	1	9.280 005	99,99	88,99
500 - 5000	50.0	purple	1	9.280 006	99,99	88,99
1000 - 10000*	100.0	turquoise	1	9.280 007	99,99	88,99

* 10000µl pipette does not have a tip ejector

LLG-Filter tips 2.0 Low Retention, PP



The new generation of LLG Labware filter tips with low liquid retention. 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

-99%

Capacity	Package contents	PK	Cat. No.	Price	Now
µl				EUR	EUR
0.1 ... 10	10 x 96	960	4.668 784	99,99	88,99
0.1 ... 10*	10 x 96	960	4.668 785	99,99	88,99
1 ... 20	10 x 96	960	4.668 786	99,99	88,99
1 ... 100	10 x 96	960	4.668 787	99,99	88,99
1 ... 200	10 x 96	960	4.668 788	99,99	88,99
100 ... 1000	8 x 96	768	4.668 789	99,99	88,99

* Tip XL

Peristaltic pump LLG-uniPERISTALTICPUMP 1



Ideal for continuous dosing applications. Space-saving, robust and with a wide range of easily exchangeable pump heads.

- Stable flow rates
- **Compact design**
- Reversible working direction
- Pump heads easily exchangeable
- Various pump heads with different hose diameters available as accessory
- Low power consumption
- Corrosion-resistant ABS housing
- OLED display for indication of speed and working direction

Scope of supply: Pump, pump head, Pharmed® hose connectors 3 mm ID, 5 mm AD

Specifications

Speed range:	0.1 ... 150 rpm
Speed accuracy:	±0.1 rpm
Flow rate range:	0.004 ... 63.69 ml/min
Weight:	0.8 kg
Dimensions (W x D x H):	180 x 115 x 125 mm
IP code:	IP 31
Working temperature range:	0 ... 40 °C
Max. humidity:	80 %
Power rating:	10 W
Power supply:	100 ... 240 V, 50/60 Hz
Warranty:	3 years

-99%

Type	Plug type	PK	Cat. No.	Price	Now
				EUR	EUR
LLG-uniPERISTALTICPUMP 1	EU	1	6.263 540	99,99	88,99
LLG-uniPERISTALTICPUMP 1	UK	1	6.263 541	99,99	88,99

Peristaltic pump LLG-uniPERISTALTICPUMP 3



Ideal for continuous dosing applications. Space-saving, robust and with stable flow rate.

- **High pumping capacity of 398 ml/min**
- Reversible working direction
- Hose connectors easily exchangeable
- Low power consumption
- Corrosion-resistant ABS housing
- OLED display for indication of speed and working direction

Scope of supply: Pump, pump head, Pharmed® hose connectors 6.4 mm ID, 9.6 mm AD

Specifications

Speed range:	0.1 ... 150 rpm
Speed accuracy:	±0.1 rpm
Flow rate range:	0.08 ... 398 ml/min
Weight:	0.8 kg
Dimensions (W x D x H):	190 x 128 x 135 mm
IP code:	IP 31
Working temperature range:	0 ... 40 °C
Max. humidity:	80 %
Power rating:	20 W
Power supply:	100 ... 240 V, 50/60 Hz
Warranty:	3 years

-99%

Type	Plug type	PK	Cat. No.	Price	Now
				EUR	EUR
LLG-uniPERISTALTICPUMP 3	EU	1	6.263 550	99,99	88,99
LLG-uniPERISTALTICPUMP 3	UK	1	6.263 551	99,99	88,99

Drum pump Pump-it®



For rapid and clean emptying from cans, drums and small barrels up to 60L.

- Precise dosing, without dripping
- Pump connection suitable for 64mm dia. (BSI) container threads
- stepless length adjustment of immersion tube
- Threaded adapters for most commercially-sold containers available
- Not suitable for HCl

-99%

Immersion depth	Flow rate	Material	PK	Cat. No.	Price	Now
mm	L / min.				EUR	EUR
1000	8	PP/FKM	1	9.001 110	99,99	88,99

Accessories for LLG-uniPERISTALTICPUMP 1 and 3

-99%

Description	PK	Cat. No.	Price	Now
			EUR	EUR
Pumphead with PharMed® tubing ID 1 mm*	1	6.263 542	99,99	88,99
Pumphead with PharMed® tubing ID 2 mm*	1	6.263 543	99,99	88,99
Pumphead with PharMed® tubing ID 3 mm*	1	6.263 544	99,99	88,99
PharMed® tubing (ID: 3.1mm, OD: 6.3mm) with connector and Tube Clip**	1	6.263 552	99,99	88,99
PharMed® tubing (ID: 4.8 mm, OD: 8 mm) with connector and Tube Clip**	1	6.263 553	99,99	88,99
PharMed® tubing (ID: 6.4 mm, OD: 9.6 mm) with connector and Tube Clip**	1	6.263 554	99,99	88,99

ID = Inner diameter || OD = Outer diameter

*LLG-uniPERISTALTICPUMP 1 || **LLG-uniPERISTALTICPUMP 3

Aspirator LLG-uniVACUUSYS



- Integrated vacuum pump with vacuum control
- Easy to use
- Self-closing connectors for quick installation and prevention of liquid or aerosol escape
- **Liquid level sensor**, prevents liquid overflow
- Autoclavable waste collection bottle and nozzle

Scope of supply: Vacuum Aspiration System with integrated vacuum pump, 4 liter waste collection bottle, single channel needles and 8-channel needle aspirator handles, single channel and 8-channel adaptor for 200 µl pipette tips, single channel adaptor for 1000 µl pipette, tubing and quick-connectors

Specifications

Vacuum range:	0 ... 600 mbar (adjustable)
Aspiration rate:	1 ... 15 ml/s
Noise emission:	<50 dB(A)
Dimensions (W x D x H):	180 x 320 x 530 mm
Weight:	3.4 kg
Power supply:	100 ... 240 V, 50/60 Hz
Warranty:	3 years

-99%

Type	Plug type	PK	Cat. No.	Price	Now
				EUR	EUR
LLG-uniVACUUSYS	EU	1	6.263 585	99,99	88,99
LLG-uniVACUUSYS	UK	1	6.263 586	99,99	88,99

96-well plate Nunc™ Edge 2.0, with flat bottom, clear, PS



- Reduced Edge Effect virtually eliminates evaporation in lengthy incubations
- Overall plate evaporation rate reduced to <2% after seven days of incubation
- Large evaporative buffer zones eliminate well-to-well variability
- Perimeter moat can be filled with 1.7mL sterile H₂O or media
- Low background fluorescence, ideal for optical instruments
- Ideal for image-based high content applications like measuring primary neuron cultures
- Untreated or cell culture treated hydrophilic surface (Nunc™ Δ)
- Total well volume: 400µL

-99%

Description	Surface	Sterile	PK	Cat. No.	Price	Now
					EUR	EUR
with lid	Nunc™ Δ	+	50	6.283 122	99,99	88,99
with lid	Non-treated	+	50	6.283 126	99,99	88,99
with lid	Nunc™ Δ	+	160	6.283 123	99,99	88,99
without lid	Nunc™ Δ	+	50	6.283 125	99,99	88,99
without lid	Nunc™ Δ	+	160	6.283 124	99,99	88,99
with lid	Non-treated	+	160	6.283 127	99,99	88,99
without lid	Non-treated	+	50	6.283 130	99,99	88,99
without lid	Non-treated	+	160	6.283 128	99,99	88,99
with lid	Non-treated	-	160	6.283 131	99,99	88,99
without lid	Non-treated	-	160	6.283 129	99,99	88,99

Cell culture flasks, treated, GL 45, PS, sterile



- Innovative angled neck design offers good pipette and cell scraper access
- Stackable
- Special writing area near the neck
- Sterilized by gamma irradiation
- Pyrogen-free
- Individually packed in resealable outer packaging with zip fastener

-99%

Working volume ml	Culture surface cm²	Cover type	PK	Cat. No.	Price	Now
					EUR	EUR
20	12.5	standard	200	4.675 617	99,99	88,99
20	12.5	vented	200	4.675 618	99,99	88,99
40	25.0	standard	200	4.675 619	99,99	88,99
40	25.0	vented	200	4.675 620	99,99	88,99
75	75.0	standard	100	4.675 621	99,99	88,99
250	75.0	vented	100	4.685 976	99,99	88,99
800	300.0	standard	18	6.314 340	99,99	88,99
800	300.0	vented	18	6.314 339	99,99	88,99

Cell and Tissue Culture Dishes, treated, PS, sterile



- Dishes with treated surface, suitable for adhesion cells.
- Easy and secure stacking
- Sterilized by gamma irradiation
- Pyrogen-free

-99%

Diam. mm	Height mm	Culture surface cm²	PK	Cat. No.	Price	Now
					EUR	EUR
18	12	12.0	300	4.672 542	99,99	88,99
33	13	8.5	960	4.672 543	99,99	88,99
52	18	21.2	600	4.672 544	99,99	88,99
55	14	3.3	600	4.672 545	99,99	88,99
68	15	36.3	600	4.672 546	99,99	88,99
85	17	55.0	500	4.672 547	99,99	88,99
88	22	60.8	300	4.672 548	99,99	88,99
136	22	143.0	120	4.672 549	99,99	88,99
136	22	143.0	100	4.672 550	99,99	88,99



Pipette controller accu-jet® S



For precise pipetting of large and small volumes. The adjustable motor speed allows to switch between free flow and rapid blow-out of the liquid.

- One-hand operation
- For glass and plastic pipettes from 0.1 to 200 ml
- Precise volume setting
- Integrated rest position

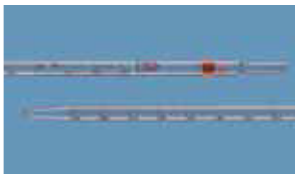
Scope of supply:
Pipette controller accu-jet® S, nickel-metal hydride battery, universal adapter (100 - 240 V, 50/60 Hz), with adapters for UK/EU/AUS/US, wall support, 2 sterile spare membrane filters (0.2 µm)

Colour	PK	Cat. No.	-99%	
			Price	Now
			EUR	EUR
anthracite	1	4.682 331	99,99	88,99
berry	1	4.682 332	99,99	88,99
petrol	1	4.682 333	99,99	88,99
amethyst	1	4.682 334	99,99	88,99

Cell culture inserts for 6-well-, 12-well- and 24-well-plates



Graduated pipettes, serological, AR-GLAS®, amber graduations



All BLAUBRAND® graduated pipettes are supplied with batch number and one batch certificate per packing unit.

- SILBERBRAND ETERNA
- Graduations and inscriptions in ETERNA amber stain
- Large tip diameter
- Tip diam. (1 and 2 ml): approx. 2 mm
- Tip diam. (5, 10 and 25 ml): approx. 3 mm
- Calibrated to deliver (TD, Ex)
- With cotton plug upper end

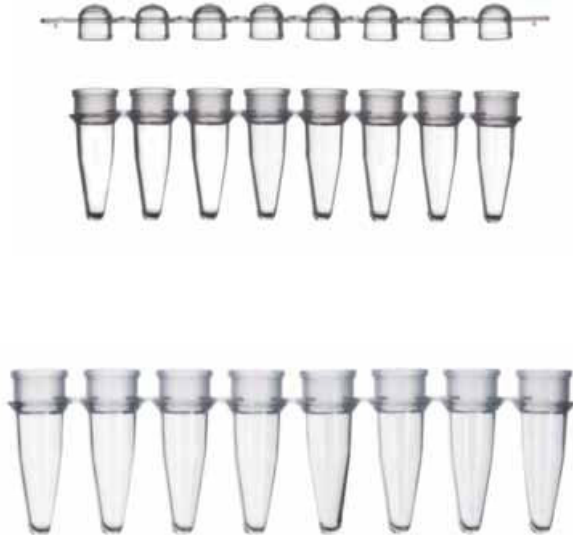
Volume	Graduations	Length	PK	Cat. No.	-99%	
					Price	Now
ml	ml	mm			EUR	EUR
1	0.01	360	1	7.018 389	99,99	88,99
2	0.02	360	1	7.018 390	99,99	88,99
5	0.1	360	1	7.018 391	99,99	88,99
10	0.1	360	1	7.018 392	99,99	88,99
25	0.1	450	1	6.231 857	99,99	88,99

The BRAND Insert 2in1 is a cell culture insert used for skin model production, 3D epithelium cultures, chemotaxis analyses, transmigration assays, transport and polarity studies.

- cellGrade™ plus surfaces
- BIO-CERT Cell culture: free of pyrogens, DNA, DNase/RNase, free of cytotoxic substances
- To be used as a hanging or standing insert
- Sterility Assurance Level (SAL) of 10-6
- Suitable for 2D and 3D cell cultures
- Three point mounting
- Feet for standing use ensure an approx. 1 mm gap between membrane and bottom of the dish or well
- Removable hook for standing use

For	Membrane	Pore size µm	Package contents	PK	Cat. No.	-99%	
						Price	Now
						EUR	EUR
24-well-plates	PC	0.4	4 x 12 pieces	48	4.666 310	99,99	88,99
24-well-plates	PC	8.0	4 x 12 pieces	48	4.666 312	99,99	88,99
24-well-plates	PET	0.4	4 x 12 pieces	48	4.666 314	99,99	88,99
24-well-plates	PET	1.0	4 x 12 pieces	48	4.684 432	99,99	88,99
24-well-plates	PET	8.0	4 x 12 pieces	48	4.666 316	99,99	88,99
12-well-plates	PC	8.0	4 x 9 pieces	36	4.666 320	99,99	88,99
12-well-plates	PET	0.4	48 x 1 pieces	48	4.666 321	99,99	88,99
12-well-plates	PET	0.4	4 x 9 pieces	36	4.666 322	99,99	88,99
12-well-plates	PET	1.0	4 x 9 pieces	36	4.684 436	99,99	88,99
12-well-plates	PET	8.0	4 x 9 pieces	36	4.666 324	99,99	88,99
6-well-plates	PC	0.4	4 x 6 pieces	24	4.666 326	99,99	88,99
6-well-plates	PC	8.0	24 x 1 pieces	24	4.666 327	99,99	88,99
6-well-plates	PET	0.4	4 x 6 pieces	24	4.666 330	99,99	88,99
6-well-plates	PET	1.0	4 x 6 pieces	24	4.684 440	99,99	88,99
6-well-plates	PET	8.0	4 x 6 pieces	24	4.666 332	99,99	88,99

LLG-PCR-Tubes, 8 Strips, PP



- For 0.2 ml thermocycler blocks
- Detached cap strips can be used as individual tubes when cut
- With domed or flat caps
- Consistent wall thickness for uniform heat transfer
- Virgin polypropylene, certified RNase-, DNase- and Endotoxin-free

-99%

Description	PK	Cat. No.	Price	Now
			EUR	EUR
8 PCR tube strips plus detached cap strips, domed caps	125	6.313 412	99,99	88,99
8 PCR tube strips plus detached cap strips, flat caps	125	4.682 694	99,99	88,99

LLG-PCR tubes with attached lids, PP



- Individual tubes
- Compatible with all common thermocyclers
- 0.2 ml or 0.5 ml
- Individual attached flat or domed snap caps
- Consistent wall thickness for uniform heat transfer
- Virgin polypropylene, certified RNase-, DNase- and Endotoxin-free

-99%

Description	PK	Cat. No.	Price	Now
			EUR	EUR
0.2 ml, single, flat cap	1000	6.313 401	99,99	88,99
0.2 ml, single, domed cap	1000	6.313 402	99,99	88,99
0.5 ml, single, flat cap	1000	6.313 403	99,99	88,99

UV/PCR cabinets UVT-B-AR



Bench-top models for protection against contamination during a variety of DNA/RNA procedures.

- UV surface irradiation, via 1 x 25 W 254 nm open UV lamp
- UV exposure control, 24 hour digital timer
- White lamp provides local illumination of the workplace to optimise visual control during operations
- Automatic switch-off of open UV light when door opened
- With 1 x internal outlet

-99%

Type	External dimensions (W x D x H) mm	Plug type	PK	Cat. No.	Price	Now
					EUR	EUR
UVT-B-AR	690 x 585 x 555	EU	1	9.721 070	99,99	88,99
UVT-B-AR	690 x 585 x 555	UK	1	6.325 716	99,99	88,99

Water, nuclease-free



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).

-99%

Type	Nominal capacity ml	PK	Cat. No.	Price	Now
				EUR	EUR
Water, nuclease-free	1000	1	4.675 029	99,99	88,99

Gel electrophoresis tank
MultiSUB Mini



The MultiSUB mini is the smallest instrument in the series, designed for small and medium sample volumes. The small buffer volume of 225 ml increases the effectiveness of the analysis.

Supplied with: MultiSUB Mini DUO: 7 x 7 cm and 7 x 10 cm UV Tray, 2 x 8 sample combs.

Specifications				
Gel dimensions (W x L):	7 x 7cm and 7 x 10 cm			
Unit dimensions (W x L x H):	21 x 9 x 9 cm			
Max. sample capacity:	7 x 7 cm tray, 32 samples			
	7 x 10 cm tray, 64 samples			
Buffer volume:	225 ml			

-99%				
Description	PK	Cat. No.	Price	Now
			EUR	EUR
MultiSUB Mini DUO	1	7.920 043	99,99	88,99

32-well PCR rack, PP



For sampling and storage of PCR tubes. This rack accommodates individual 0.2 ml tubes, strips of 8, as well as 32-place assay plates (8x4).

- With removable, hinged lid
- Embossed numbers and letters for easy identification
- Stackable
- Autoclavable

-99%				
Dimensions (W x D x H)	PK	Cat. No.	Price	Now
mm			EUR	EUR
175 x 98 x 31	10	6.491 881	99,99	88,99

Power supply nanoPAC-300 Mini for gel electrophoresis tanks



- The nanoPAC-300 is capable of running all Cleaver Scientific horizontal multiSUB™ systems and vertical omniPAGE mini gel systems.
- Maximum constant current output of 400mA
 - Simple two step feature to set a programmable change in voltage, current and time during the run
 - Constant voltage up to 300 V
 - Adjustable in 1 V and 1 mA increments
 - Two parallel outputs
 - Continuous run or timed setting up to 999 minutes
 - Automatic safety shutdown
 - Alarm function
 - Easy-to-clean polycarbonate housing
 - 3-digit LED display

-99%						
Type	Rating	Supply requirements	PK	Cat. No.	Price	Now
	W				EUR	EUR
nanoPAC-300P Mini	60	300 V / 400 mA	1	6.272 711	99,99	88,99

LLG-Agarose Standard



LLG-Agarose is ideal for routine separation of DNA and RNA fragments, as well as PCR products with electrophoresis. High transparency and low background of the agarose gel ensures clear and sharply defined bands.

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

Appearance:	White powder
Clarity (NTU):	≤4 (1.5 % gel)
Gelling point:	36 ±1.5 °C (1.5 % gel)
Melting point:	88 ±1.5 °C (1.5 % gel)
Gel strength:	≥1000 g/cm² (1 % gel)
Sulphate:	≤0.15 %

-99%				
Capacity	PK	Cat. No.	Price	Now
g			EUR	EUR
100	1	4.681 511	99,99	88,99
500	1	4.681 512	99,99	88,99

Safety Bunsen Burner, schuett phoenix II

schuett **biotec.de**



eco

standard

For sterilising, heating, flame sterilising.

- Controlled burning time 1 sec to 120 min (selectable)
- Automatic safety shut-off (selectable)
- Overheating protection/burner control by sensors

schuett phoenix II eco: (with LED control lamp and foot-switch) Start flame by foot-switch or button (On/Off). Best suited for use in microbiological safety cabinets. Best price to performance ratio.

schuett phoenix II standard: (brilliant colour display, selection of native language, sensor and foot-switch) Start/Stop flame by activating sensor 1x or 2x, use foot switch or press button by hand. Continuous display of timer.

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

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

-99%

Type	PK	Cat. No.	Price	Now
			EUR	EUR
schuett phoenix II eco*	1	9.018 760	99,99	88,99
schuett phoenix II standard*	1	9.018 761	99,99	88,99
schuett phoenix II accu	1	9.018 762	99,99	88,99

*incl. foot switch, stainless steel

Petri dish turntables, schütt Petriturn

schuett **biotec.de**



manual

electric

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

schütt petriturn-M

With manually operated, heavy turntable for smooth and long-lasting rotation. Double-sided construction accommodates two sizes of petri dish (90mm or 150mm diameter), by inverting the turntable. Dimensions: (Ø x H) 160 x 45 mm.

schütt petriturn-E

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

Dimensions: (Ø x H) 160 x 70 mm.

-99%

Type	PK	Cat. No.	Price	Now
			EUR	EUR
schuett petriturn-M, manually driven	1	9.520 201	99,99	88,99
schuett petriturn-E, electrically driven	1	9.520 200	99,99	88,99
Foot pedal for schuett petriturn-E	1	9.520 203	99,99	88,99
Turntable adapter for Petri dishes up to 150mm diameter	1	9.520 204	99,99	88,99

Inoculation loops "metal" and loop stands

schuett **biotec.de**



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

Inoculation loop holder according to Kolle for 0.3 to 0.7mm wire diameter. Stainless steel with handle. Fixed by union nut.

Inoculation loop stand accommodate up to 6 inoculation loop holders at any one time.

-99%

Type	Description	PK	Cat. No.	Price	Now
				EUR	EUR
P-I 1	Platinum-iridium	1	9.520 180	99,99	88,99
P-I 2	Platinum-iridium	1	9.520 181	99,99	88,99
P-I 3	Platinum-iridium	1	9.520 182	99,99	88,99
P-I 5	Platinum-iridium	1	9.520 184	99,99	88,99
W-1.5	Stainless steel	10	9.520 185	99,99	88,99
W-2.5	Stainless steel	10	9.520 186	99,99	88,99
W-4.0	Stainless steel	10	6.233 696	99,99	88,99
Inoculation loop stand R (round)	(Diam. x H) 80 x 50mm	1	9.520 190	99,99	88,99
Inoculation loop stand L (long)	(L x W x H) 180 x 50 x 50mm	1	9.520 191	99,99	88,99

LLG-Petri dishes, PS



Made of high quality optical clear polystyrene. Produced under aseptic conditions in an ISO 6 cleanroom. Packed in sleeves á 10 dishes or 20 dishes (90 mm diam. dishes).

-99%

Ext. diam. mm	Description	Height approx. mm	PK	Cat. No.	Price	Now
					EUR	EUR
60	with triple vents, aseptic	14	1080	6.323 696	99,99	88,99
60	without vents, aseptic	14	1080	6.323 697	99,99	88,99
90	with triple vents, aseptic	16	480	6.285 823	99,99	88,99
90	without vents, aseptic	16	480	6.285 824	99,99	88,99
60	with triple vents, sterile	14	1080	4.678 371	99,99	88,99
60	without vents, sterile	14	1080	4.678 372	99,99	88,99
90	with triple vents, sterile	16	480	6.285 816	99,99	88,99
90	without vents, sterile	16	480	6.285 817	99,99	88,99
150	with triple vents, sterile	19	140	4.680 144	99,99	88,99

Luminometer Clean-Trace™ LM1



Simple, quick and reliable hand held diagnostic tool to verify cleaning effectiveness and capture, store and manage data for later analysis.

- Compact and easy-to-use
- Rapid results allow immediate corrective action
- To be used with the dry swabs 3M™ Clean-Trace™ UXL100, AQT200 and AQF100

-99%

Type	PK	Cat. No.	Price	Now
Clean-Trace LM1	1	4.665 172	EUR 99,99	EUR 88,99

Culture Plates 3M™ Petrifilm™



- Ready to use
- 90 % less material volume
- Validated methods
- Time and energy saving
- Increased productivity and reliability
- Low operating costs
- Fast and reliable evaluation

-99%

Description	PK	Cat. No.	Price	Now
			EUR	EUR
Total bacteria count aerobic bacteria	100	6.237 738	99,99	88,99
Total bacteria count aerobic bacteria	1000	6.236 670	99,99	88,99
Rapid test coliforms	50	6.245 052	99,99	88,99
Bacteria count <i>E.coli</i>	50	6.269 819	99,99	88,99
Bacteria count Enterobacteriaceae	50	6.251 171	99,99	88,99
Bacteria count Enterobacteriaceae	1000	6.257 509	99,99	88,99
Bacteria count <i>S. aureus</i>	50	6.257 510	99,99	88,99
Rapid test Yeast and Fungi	50	6.282 104	99,99	88,99
Bacteria count Yeast and Fungi	100	7.657 837	99,99	88,99
Bacteria count Yeast and Fungi	1000	6.257 514	99,99	88,99
Lactic acid bacteria	50	4.662 133	99,99	88,99
Rapid detection of aerobic bacteria	50	6.274 512	99,99	88,99

Dry Swabs Clean-Trace™



-99%

Type	Description	PK	Cat. No.	Price	Now
				EUR	EUR
MPRO50	Surface Protein Plus	50	4.665 741	99,99	88,99
ATP	Positive control for surface	100	4.672 003	99,99	88,99

Dry swabs for Luminometer 3M™ Clean-Trace™ NG3/LM1



-99%

Type	Description	PK	Cat. No.	Price	Now
				EUR	EUR
ATP UXL100	Dry swabs for surfaces	100	6.243 230	99,99	88,99
Water AQF100	Dry swabs, free ATP	100	6.261 832	99,99	88,99

LLG-Dry swabs, sterile



-99%

Description	PK	Cat. No.	Price	Now
			EUR	EUR
with Cotton tip and wooden stick, individually wrapped	1000	9.404 004	99,99	88,99
with Rayon tip and plastic stick, individually wrapped	1000	9.404 006	99,99	88,99
with clear Amies medium, Rayon tip and plastic stick, in PP test tube	150	9.404 007	99,99	88,99

Microscopes, RED 30S



With independent LED illumination. The modern fixed-arm stands with integrated carrying handle ensure a stable stand and easy transport.

- With magnification changer (2x, 4x)
- Binocular head, 45° inclined
- Widefield eyepieces WF10X/20 mm
- Objective turret magnification changer (2X, 4X)
- Coarse focusing system with tension adjustment
- Base with fixed arm and carrying handle
- Incident and transmitted rechargeable LED illumination with independent intensity control
- Power supply 100-240 V (CE), charger and batteries included
- Black/white and frosted stage plates, "one-touch" sample clips and dust cover
- 10 years warranty

-99%

Type	Description	PK	Cat. No.	Price	Now
RED 30S	Binocular	1	6.281 648	EUR 99,99	EUR 88,99

SuperFrost® Plus adhesive microscope slides



Plus



Plus Gold



Size: 75mm x 25mm x 1.0mm. Ground edges 90°, white SuperFrost marking area. A new application method provides the surface of a slide with a permanent positive charge. Electrostatic attraction binds fresh, frozen tissue sections and cytology preparations. Also available with blue, yellow, pink or green SuperFrost marking area.

-99%

Type	PK	Cat. No.	Price	Now
SuperFrost® Plus	72	9.161 155	EUR 99,99	EUR 88,99
SuperFrost® Plus Gold (suitable for thicker tissue sections)	72	6.700 125	EUR 99,99	EUR 88,99

Digital refractometer ORL



Accurate and maintenance-free digital benchtop refractometer with 2 scales, for universal applications in the laboratory.

- Large multifunction display with integrated temperature display
- Automatic temperature compensation (ATC)
- Calibration with distilled water

Scope of supply:

Digital refractometer, pipette, storage case, USB cable, power adapter, screwdriver

Specifications

Minimum sample volume:	0.3 ... 0.4 ml
Temperature range:	0 ... 40 °C
Power supply:	USB connection or 1 × rechargeable battery 3.7 V, 3000 mA (not included in scope of supply)
Dimensions (W x D x H):	180 x 100 x 55 mm
Weight:	365 g

-99%

Type	Measuring range	Accuracy	PK	Cat. No.	Price	Now
ORL 94BS	0 ... 94 % Brix 1,3330 ... 1,5290 nD	± 0,1 % Brix ± 0,0002 nD	1	6.321 932	EUR 99,99	EUR 88,99

LLG-Slide mailers



Manufactured from high density polypropylene, for shipping, storing or staining slides. Flat mailers can hold 1, 2, 3 or 5 standard (up to 76mm x 26mm) 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

-99%

To hold microscope slides	PK	Cat. No.	Price	Now
1	10	9.161 291	EUR 99,99	EUR 88,99
2	10	9.161 292	EUR 99,99	EUR 88,99
3	10	9.161 293	EUR 99,99	EUR 88,99
5	10	9.161 294	EUR 99,99	EUR 88,99

Spectrophotometers XD 7000 VIS and XD 7500 UV-VIS



XD 7000 VIS

UV-VIS and VIS spectrophotometers with dual beam optics. Further functions of the spectrophotometers include measurement of transmission and absorbance, scanning of spectra, kinetics analysis and creation of user-defined methods.

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

Specifications

Optical System:	XD 7000 VIS // XD 7500 UV-VIS grid monochromator with reference beam
Wavelength range:	320 - 1100 nm // 190 - 1100 nm
Bandwidth:	4 nm
Wavelength accuracy:	±1 nm on all Holmium peaks
Wavelength repeatability:	better than 0.5 nm
Photometric range:	-3.3 to +3.3 Abs
Photometrical resolution/Transmission:	0.001 Abs/0.1%
Photometric accuracy/repeatability:	0.003 Abs below 0.6 Abs 0.5 % from 0.6 to 2.0 Abs
Photometrical linearity:	<1% up to 2.0 Abs between 340 to 900 nm
Drift:	<0.005 Abs per hour after 15 minutes heat up time
Internal Storage:	40 MB for approx. 5000 data sets
Lamps:	Tungsten-halogen-lamp // Xenon flash lamp
Dimension (W x D x H):	422 x 323 x 195 mm
Weight:	approx. 4.5 kg
Power supply:	100 - 240V, 50/60 Hz
Protection class:	IP 30

-99%

Type	PK	Cat. No.	Price	Now
			EUR	EUR
XD 7000 VIS	1	6.272 436	99,99	88,99
XD 7500 UV-VIS	1	6.272 437	99,99	88,99

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

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

LLG-Disposable plastic cells, PS



The shape and narrow wall thickness of the cuvettes enable an excellent heat transfer resulting in constant sample temperatures during photometric measurements.

- Cavity sorted
- Glass clear polystyrene (PS)
- Applicable wavelength range 340 nm to 900 nm
- Path length 10 mm
- Overall dimensions 12.5 mm x 12.5 mm x 45 mm
- Styrofoam racks: 100 cuvettes in a styrofoam box with cover

-99%

Description	Capacity	PK	Cat. No.	Price	Now
	ml			EUR	EUR
Macro	4.0	100	9.406 011	99,99	88,99
Semi-micro	1.6	100	9.406 012	99,99	88,99

SIL G unmodified standard silica layers for TLC, glass plates/ POLYGRAM®



Support materials for TLC ready-to-use layers

Glass plates: glass, ~ 1.3 mm thick, high requirements for weight, packaging and storage, ideal torsional strength, high temperature stability, susceptible to breakage, can not be cut with scissors, high resistance against solvents, mineral acids and conc. ammonia, suitability for aqueous detection reagents depends on the phase

POLYGRAM®: polyester, ~ 0.2 mm thick, low requirements for weight, packaging and storage, low torsional strength, max. 185 °C temperature stability, not susceptible to breakage, can be cut with scissors, high resistance against solvents, mineral acids and conc. ammonia, very suitable for aqueous detection reagents

ALUGRAM®: aluminium, ~ 0.15 mm thick, low requirements for weight, packaging and storage, relatively high torsional strength, high temperature stability, not susceptible to breakage, can be cut with scissors, high resistance against solvents, low resistance against mineral acids and conc. ammonia, limited suitability for aqueous detection reagents

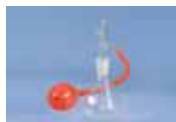
Glass plates, POLYGRAM®, ALUGRAM®

- Silica 60
- Specific surface (BET) ~500 m²/g
- Mean pore size 60 Å
- Specific pore volume 0.75 ml/g
- Particle size 5 to 17 µm
- Indicators: manganese-activated zinc silicate with green fluorescence in short-wave UV light (254 nm).
- Available with or without fluorescent indicator (UV 254)



Type	Plate format cm	Gel thickness mm	PK	Cat. No.	-99%	
					Price	Now
					EUR	EUR
Glass plates SIL G-25 UV ₂₅₄	10 x 20	0.25	50	6.230 274	99,99	88,99
Glass plates SIL G-25	20 x 20	0.25	25	9.003 491	99,99	88,99
Glass plates SIL G-25 UV ₂₅₄	20 x 20	0.25	25	9.003 492	99,99	88,99
POLYGRAM® polyester sheets SIL G UV ₂₅₄	4 x 8	0.20	50	9.003 493	99,99	88,99
POLYGRAM® polyester sheets SIL G UV ₂₅₄	5 x 20	0.20	50	9.003 476	99,99	88,99
POLYGRAM® polyester sheets SIL G UV ₂₅₄	20 x 20	0.20	25	9.003 494	99,99	88,99
ALUGRAM® aluminium sheets SIL G UV ₂₅₄	4 x 8	0.20	50	9.003 496	99,99	88,99
ALUGRAM® aluminium sheets SIL G	5 x 7.5	0.20	20	4.005 042	99,99	88,99
ALUGRAM® aluminium sheets SIL G UV ₂₅₄	5 x 10	0.20	50	9.003 477	99,99	88,99
ALUGRAM® aluminium sheets SIL G UV ₂₅₄	5 x 20	0.20	50	9.003 478	99,99	88,99
ALUGRAM® aluminium sheets SIL G UV ₂₅₄	10 x 20	0.20	20	6.233 568	99,99	88,99
ALUGRAM® aluminium sheets SIL G	20 x 20	0.20	25	7.059 745	99,99	88,99
ALUGRAM® aluminium sheets SIL G UV ₂₅₄	20 x 20	0.20	25	9.003 497	99,99	88,99
ALUGRAM® aluminium sheets Xtra SIL G UV ₂₅₄	4 x 8	0.20	50	6.259 756	99,99	88,99
ALUGRAM® aluminium sheets Xtra SIL G UV ₂₅₄	5 x 10	0.20	50	7.638 354	99,99	88,99
ALUGRAM® aluminium sheets Xtra SIL G UV ₂₅₄	20 x 20	0.20	25	6.242 312	99,99	88,99

Special atomiser, with rubber blowball



With rubber blowball for nebulising reagents.

Type	PK	Cat. No.	-99%	
			Price	Now
			EUR	EUR
Special atomiser	1	9.024 000	99,99	88,99

Standard separating chamber



Flat chamber floor with glass ridge, for all TLC plates up to 200 mm x 200 mm.
Filter paper for gas space saturation to optimize the separation results.

Type	PK	Cat. No.	-99%	
			Price	Now
			EUR	EUR
Separating chamber 200 x 200 mm with glass lid	1	6.311 891	99,99	88,99
Filter paper for chamber saturation	25	9.020 179	99,99	88,99

UV analysis lamp



2 x 6 W Analysis lamp with two separately switchable UV tubes of high radiation intensity. The UVA tube produces long-wave radiation at 365 nm and the UVC tube short-wave radiation at 254 nm. Ideal for chemical-analytical applications and for hygiene monitoring.

Please order table stand separately.

Type	Plug type	PK	Cat. No.	-99%	
				Price	Now
				EUR	EUR
UV analysis lamp	EU	1	4.690 306	99,99	88,99
UV analysis lamp	UK	1	6.325 683	99,99	88,99
Table stand	-	1	4.690 307	99,99	88,99

SafetyCaps Generation 2.0, GL 45



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.
Safe solvent supply. With integral air filter vent. For maximum efficiency, we recommend that the vent is changed every 6 months. The filter membrane absorbs dust and dirt particles to protect your solvent reservoirs.

-99%					
Description	Connections	PK	Cat. No.	Price	Now
				EUR	EUR
SafetyCaps I (V 2.0)	1 capillary (3.2 mm o.d.)	1	4.669 370	99,99	88,99
SafetyCaps II (V 2.0)	2 capillaries (3.2 mm o.d.)	1	4.669 371	99,99	88,99
SafetyCaps III (V 2.0)	3 capillaries (3.2 mm o.d.)	1	4.669 372	99,99	88,99

Air valves Generation 2.0 for SafetyCaps



- Thread size UNF 1/4" 28G
- Luer Lock adapter
- PTFE Filter
- Valve membrane blocks vapours and opens at negative pressure
- It is recommended to replace the valve every 6 months

-99%					
Type	Flow rate amount ml/min	PK	Cat. No.	Price	Now
				EUR	EUR
Refill pack of 8	400	8	6.318 227	99,99	88,99
Refill pack of 10	400	10	4.669 376	99,99	88,99
Refill pack of 50	400	50	4.669 377	99,99	88,99

Safety Waste Caps V3.0



Safety Waste Cap for connecting 4 capillaries (UNF 1/4" 28 G), 3 tube connectors (NPT 1/8") and an exhaust filter (GL 14). With freely movable cap for simple exchange of the container.

Scope of supply: Screw cap (PPS), satellite (PTFE, white), blind plug M 30x35 (PTFE), PFA fittings: 4 x 1.6 mm (green), 4 x 2.3 mm (violet), 4 x 3.2 mm (blue), 4 blind plugs for capillary connections (PFA, transparent), 3 tube connectors for tubes with 5.0 - 11.5 mm ID (PP, blue), 3 blind plugs for tube connections (PTFE, white), 1 blind plug GL 14 (PTFE, white)

-99%					
Thread	PK	Cat. No.	Price	Now	
			EUR	EUR	
GL 45	1	4.683 850	99,99	88,99	
S 55	1	4.683 889	99,99	88,99	
S 60/61	1	4.683 890	99,99	88,99	

Seasand for Chromatographic columns



-99%					
Acid washed, calcined. Pack of 1000 g.					
Description	PK	Cat. No.	Price	Now	
			EUR	EUR	
Seasand, acid washed, calcined, pack of 1000 g	1	6.700 265	99,99	88,99	

LLG-Buckets, PP



White. With lid and temper-evident closure. Stability guaranteed when filling up with material up to 80 °C.

-99%

Capacity	Diam.	Height	PK	Cat. No.	Price	Now
Litres	mm	mm			EUR	EUR
1	131	127	10	6.291 418	99,99	88,99
2	179	133	10	6.291 419	99,99	88,99
3	198	141	10	6.291 420	99,99	88,99
5	224	193	10	6.291 421	99,99	88,99
10	266	265	10	6.291 422	99,99	88,99

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



White, with screwed-on lid.

-99%

Nominal capacity	Ø with Cover	Height	PK	Cat. No.	Price	Now
ml	mm	mm			EUR	EUR
30	58	19	10	9.402 310	99,99	88,99
75	58	47	10	9.402 313	99,99	88,99
310	81	81	10	9.402 318	99,99	88,99
600	119	67	10	9.402 321	99,99	88,99
1250	119	130	5	9.402 324	99,99	88,99

LLG-Aspirator Bottles, narrow neck, HDPE, with stopcock

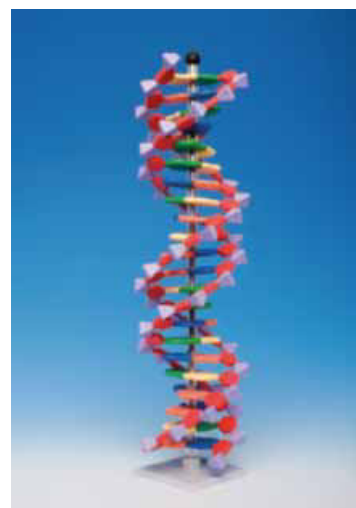
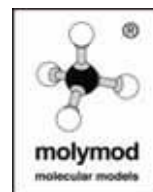


With carrying handle and 3/4" stopcock. Thread and opening for stopcock provided. Suitable for food. With gasket in the screw cap for a very tight seal. Screw cap can be attached to the bottle using the integrated loops. The bottles can be used by temperature from -40 °C to +80 °C. Please use only in upright position.

-99%

Capacity	Body diam.	Height	PK	Cat. No.	Price	Now
l	mm	mm			EUR	EUR
5	160	350	1	9.139 933	99,99	88,99
10	210	430	1	9.139 934	99,99	88,99
25	270	570	1	9.139 935	99,99	88,99
50	350	690	1	9.139 936	99,99	88,99

Molecular model system miniDNA®



The advanced miniDNA® system comprises colour-coded, abstract-shaped parts designed to represent the nitrogenous bases, pentagonal sugar and pyramidal phosphate components needed to make a double-helix model of DNA. The three hydrogen bonds that connect Cytosine to Guanine and the two that connect Thymine to Adenine are represented by the appropriate number of pegs. Two DNA kits are available to make either a 12-layer (1 turn) or 22-layer (2 turns) DNA model. The models can be displayed on their stands, or unzipped into a ladder form to demonstrate the process of Replication.

-99%

Description	PK	Cat. No.	Price	Now
			EUR	EUR
12-layer Kit	1	6.261 370	99,99	88,99
22-layer Kit	1	6.261 344	99,99	88,99

Adhesive rubber mat



-99%

Description	PK	Cat. No.	Price	Now
			EUR	EUR
Adhesive rubber mat, blue, 150 x 150 x 3 mm	2	6.263 598	99,99	88,99

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.

-99%

Filter diam.	Pore size	Housing	Sterile	PK	Cat. No.	Price	Now
mm	µm					EUR	EUR
13	0.22	PP, blue	-	100	4.685 651	99,99	88,99
13	0.45	PP, blue	-	100	4.685 652	99,99	88,99
25	0.22	PP, blue	-	50	4.685 653	99,99	88,99
25	0.45	PP, blue	-	50	4.685 660	99,99	88,99
13	0.22	PP, blue	+	100	4.685 654	99,99	88,99
13	0.45	PP, blue	+	100	4.685 655	99,99	88,99
25	0.22	PP, blue	+	45	4.685 656	99,99	88,99
25	0.45	PP, blue	+	45	4.685 657	99,99	88,99

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.

- 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

-99%

Diam.	Pore size	PK	Cat. No.	Price	Now
mm	µm			EUR	EUR
50	0.22	20	4.685 658	99,99	88,99
50	0.45	20	4.685 659	99,99	88,99

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



- Barrel: PP, Plunger: PP and Polyisoprene rubber
- Smooth flow, tight, high transparency barrel
- Latex-free, pyrogen-free, DEHP-free, non-toxic
- Defined safety stop to avoid accidental pull-out of plunger
- Suitable for all syringe filters with Luer connection

-99%

Capacity	Nozzle type	PK	Cat. No.	Price	Now
ml				EUR	EUR
2	Luer-Slip	500	6.267 267	99,99	88,99
5	Luer-Slip	500	6.267 268	99,99	88,99
10	Luer-Slip	500	6.267 269	99,99	88,99
20	Luer-Slip	500	6.267 270	99,99	88,99
2	Luer-Lock	500	6.286 616	99,99	88,99
5	Luer-Lock	500	6.286 617	99,99	88,99
10	Luer-Lock	500	6.286 618	99,99	88,99
20	Luer-Lock	500	6.286 619	99,99	88,99

Syringe filter Minisart® RC, Male Luer Slip



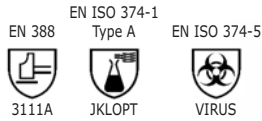
SARTORIUS

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.

-99%

Filter diam.	Pore size	Colour	Sterile	PK	Cat. No.	Price	Now
mm	µm					EUR	EUR
25	0.20	White, Printed	+	50	7.076 270	99,99	88,99
25	0.20	White, Printed	-	50	9.049 094	99,99	88,99
25	0.20	White, Printed	-	500	9.049 095	99,99	88,99
25	0.45	White, Printed	-	50	9.049 097	99,99	88,99
25	0.45	White, Printed	-	500	9.049 098	99,99	88,99
15	0.20	White, Printed	+	50	7.075 954	99,99	88,99
15	0.20	White, Printed	-	500	9.049 088	99,99	88,99
15	0.45	White, Printed	-	50	9.049 091	99,99	88,99
4	0.20	Blue Tray	-	50	9.049 081	99,99	88,99
4	0.45	Yellow Tray	-	50	9.049 084	99,99	88,99

Chemical Protection Glove Ultranitril 381, Nitrile



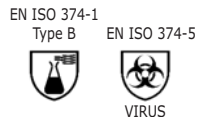
Chemical protective glove made of nitrile with glued cotton liner for long term comfort. Anatomic shape. Z-pattern-profile for safe grip of wet things. More dexterity due to the glued cotton knit lining, which offers excellent comfort and thermal insulation. Excellent resistance against oils, greases and many solvents.
1 pair per pack.

Length: 355 mm
Thickness: 0.85 mm
Colour: Green
CE: **Cat. III**

-99%

Size	PK	Cat. No.	Price	Now
			EUR	EUR
S (7)	1	9.005 206	99,99	88,99
M (8)	1	9.005 207	99,99	88,99
L (9)	1	9.005 208	99,99	88,99
XL (10)	1	9.005 209	99,99	88,99

Disposable gloves Kimtech™ Opal™, nitrile



The disposable gloves guard against contamination by chemical splash and micro-organism hazards.

- Powder free
- High tactile sensitivity
- With beaded cuff and textured fingertips
- Good wet and dry grip
- Improved comfort for extended wearing time
- Ambidextrous
- AQL 1.5
- **Cat III**

According to EN ISO 374-1 Type B (KPT), EN 374-4, EN ISO 374-5. Manufactured in accordance with Quality System ISO 9001 and ISO 13485.

-99%

Size	Length	Thickness	PK	Cat. No.	Price	Now
	mm	mm			EUR	EUR
XS	240	0.07	200	4.684 352	99,99	88,99
S	240	0.07	200	4.684 353	99,99	88,99
M	240	0.07	200	4.684 354	99,99	88,99
L	240	0.07	200	4.684 355	99,99	88,99
XL	240	0.07	170	4.684 356	99,99	88,99

LLG-Overall tritex® pro White, Type 5/6, PP



Particle-tight, and to a limited extent, spray-tight chemical protective clothing.

The coverall made of 3-layer SMS material (spunbond-meltblown-spunbond) is robust and breathable. A meltblown filter membrane is embedded between two durable outer layers. Comfortable to wear, this coverall is a pleasant, protective companion in many work areas. Special features are the hood, the zipper cover strip, the back rubber element, and the arm and leg rubber elements.

- antistatic
- lint-free
- abrasion resistant
- breathable

Cat. III/CE 0624/Type 5/6

Coverall individually packed!

-99%

Size	PK	Cat. No.	Price	Now
			EUR	EUR
L	5	6.266 641	99,99	88,99
XL	5	6.266 642	99,99	88,99
XXL	5	6.266 643	99,99	88,99

Skin Protection Cream LINDESA® K PROFESSIONAL with Beeswax and Chamomile



-99%

Capacity	PK	Cat. No.	Price	Now
			EUR	EUR
100 ml	10	6.317 296	99,99	88,99

LLG-Safety Eyeshields *comfort*



- CE approved to EN166, EN170
- Panoramic wrapping lens
- 180° field of vision
- Frame made of tested hypo-allergenic material
- Side arms adjustable in length
- Nose pad and arm tips are made from soft, mouldable material offer optimal comfort and individual customisation
- Rubber eyebrow protection for greater shock absorption
- 100% UV protection (up to 400nm)
- Lightweight: 30g only

-99%

Lens	PK	Cat. No.	Price	Now
clear, anti-scratch plus and anti-fog lens plus, 2C-1.2 U 1 FT CE	1	6.312 450	EUR 99,99	EUR 88,99

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

-99%

Description	Dimensions (W x D x H) mm	PK	Cat. No.	Price	Now
LLG-Dispenserbox	216 x 216 x 200	1	6.286 593	EUR 99,99	EUR 88,99

Eye Wash Bottle, 0.9 % NaCl, Sterile



- choice of 0.2 litre (washing time approx. 2 minutes) or 0.5 litre (washing time approx. 5 minutes) bottles
- Duo wash bottle for both eyes 1000 ml (washing time approx. 5 minutes)
- Ergonomic eye cup - keeps the eyes open during application
- Saline solution (0.9 %), conforming to the natural salinity of the eye
- According to DIN EN 15154-4

NEW: eye wash bottle DUO for simultaneous washing of both eyes

-99%

Description	PK	Cat. No.	Price	Now
			EUR	EUR
Eye wash bottle 0,9% NaCl, 200ml	1	9.733 794	99,99	88,99
Spare eyewash bottle, 0,9% NaCl, 500ml	1	9.733 793	99,99	88,99
Eye wash bottle DUO 0,9% NaCl, 1000ml	1	6.240 397	99,99	88,99

Disposable Face Mask, Profil Plus



Disposable surgical face mask with Earloops, non-sterile, 3-layer non-fiber-glass filter medium.

- Three layers of protection
- Soft elastic earloops
- Integrated nosepiece
- Latex free
- Nickel free
- EN 14683 Type II R, CE
- Box with 50 pieces

-99%

Colour	Width mm	Length mm	PK	Cat. No.	Price	Now
					EUR	EUR
blue	95	175	500	6.320 157	99,99	88,99
white	95	175	500	6.320 162	99,99	88,99
green	95	175	500	6.320 158	99,99	88,99
pink	95	175	500	6.322 924	99,99	88,99
black	95	175	500	6.322 923	99,99	88,99

LLG-Lab Stool



The extra-large seat provides optimum comfort. The solid black plastic star base and the upholstery edge protector that runs all the way round guarantee a long working life. The practical gas spring system with easy ring control allows a comfortable seat height adjustment.

- Resistant to all of the usual disinfectants and chemicals.
- Seat upholstery made of artificial leather, 400 mm diameter (soft and comfortable, washable and antibacterial) or soft-touch PU foam, 350 mm diameter (extremely robust, washable and antibacterial) in black.
- Seat height adjustment by gas spring.
- Solid black plastic star base, flat design.
- The chrome-plated foot ring for the high chairs provides support through the wide tread area and can be easily and quickly adjusted in height.
- With certificate "Tested Safety" (GS mark).
- 10 years warranty, Made in Germany.

-99%

Description	Material	Seat height adjustment	PK	Cat. No.	Price	Now
		mm			EUR	EUR
Castors	PU foam	460 ... 630	1	6.287 757	99,99	88,99
Glides, foot ring	PU foam	570 ... 850	1	6.287 759	99,99	88,99
Castors	Artificial leather	460 ... 630	1	6.287 758	99,99	88,99
Glides, foot ring	Artificial leather	570 ... 850	1	6.287 760	99,99	88,99

LLG-Lab Standing Rest



The LLG-Lab Standing Rest is the practical solution for laboratory workplaces where people have to sit as well as to stand. To cope with this, it has a particularly wide range of heights that can be adjusted steplessly. Its ergonomic backrest and non-slip wave seat surface ensure that you feel completely safe and comfortable when you sit on it.

- Resistant to all of the usual disinfectants and chemicals.
- Seat upholstery made of soft-touch PU foam (extremely robust, washable and antibacterial) in black.
- Adheres to biosafety level BSL1 and BSL2 of the Directive for Biological Agents.
- GMP-conform.
- Rippled wave seat surface: Slip-resistant and offers a very good support and excellent ventilation.
- Integrated backrest: Best support of the lumbar region.
- Its low weight provides maximum mobility and easy handling in the laboratory.
- Seat height adjustment by gas spring.
- Seat swivel range of 360°.
- Solid black plastic star base, flat design.
- The chrome-plated foot ring provides support through the wide tread area and can be easily and quickly adjusted in height.

-99%

Description	Material	Seat height adjustment	PK	Cat. No.	Price	Now
		mm			EUR	EUR
Glides	PU Foam	510-780	1	6.288 956	99,99	88,99
Glides, Foot Ring	PU Foam	510-780	1	6.288 957	99,99	88,99

Folding steps K80



Made of aluminum, with large steel steps of 30 x 21 cm and anti-slip mats, black. Narrowly foldable to 5 cm. Can be loaded up to 150 kg.

-99%

Number of steps	Height*	PK	Cat. No.	Price	Now
				EUR	EUR
2	46	1	4.668 331	99,99	88,99
3	69	1	7.623 704	99,99	88,99

* Height of first step (cm)

Mat Hygiene grey



Premium rubber anti-fatigue mat.

- Shaped bevelled edges
- Silicone und Latex-free
- Suitable for use in cleanrooms of class ISO 5
- 3 years warranty

-99%

Description	Dimensions	Height	PK	Cat. No.	Price	Now
	mm	mm			EUR	EUR
Hygiene grey	600 x 900	11	1	4.665 404	99,99	88,99
Hygiene grey	900 x 1200	11	1	4.665 406	99,99	88,99

Disposable gloves MICROFLEX® 93-360, Nitrile

EN ISO 374-1
Type A EN ISO 374-5 EN 421:2010

JKLOPST VIRUS



Thin, chemical resistant disposable glove designed for cleanroom environments.

- Comfortable fit
- Ambidextrous
- Textured fingers
- Rolled edge
- Powderfree
- Chlorinated
- Carton with 10 bags of 50

According to EN ISO 374-1:2016/Type A (JKLOPST), EN ISO 374-5:2016 (VIRUS), EN 421

Colour: blue/green
Thickness: 0.13 mm
AQL: 0.

-99%

Size	Length	PK	Cat. No.	Price	Now
	mm			EUR	EUR
S (6,5 - 7)	295	50	4.687 394	99,99	88,99
M (7,5 - 8)	295	50	4.687 395	99,99	88,99
L (8,5 - 9)	295	50	4.687 396	99,99	88,99
XL (9,5 - 10)	295	50	4.687 397	99,99	88,99

Overgoggles uvex super f OTG CR 9169



- Professional protection of products and humans
- First autoclavable protective overgoggles with anti-fog effect
- Sterile eye protection in every situation
- Autoclavable at least 10 times, 121 °C, 20 minutes
- Innovative design for maximum functionality and wearer comfort
- Overgoggles with unrestricted lateral vision
- Also suitable for use over prescription spectacles
- Non-allergenic material which is free of harmful substances
- Ultra-modern lens technology
- Extremely flexible soft ear pieces
- EN 166
- UV 400
- Weight 37 g

Coating uvex supravision clean.

-99%

Lens	Coating	PK	Cat. No.	Price	Now
				EUR	EUR
clear, UV 400, 2C-1,2	uvex supravision clean	1	6.268 419	99,99	88,99

Cleanroom wipes Clino® Wave CR, microfibre



Reusable microfibre wipe for all smooth surfaces in the cleanroom.

- Streak-free cleaning
- Excellent dust absorption without scratching the surface due to the special knitted structure
- Above average number of washes due to high quality finish
- Non-sterile
- Resistant to the usual cleaning agents and disinfectants on the market

-99%

Dimensions	Colour	Weight	Cleanroom Class	PK	Cat. No.	Price	Now
mm		g				EUR	EUR
350 x 350	white	45	ISO 7 - 8	50	6.325 064	99,99	88,99

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.)

-99%

Description	Colour	PK	Cat. No.	Price	Now
				EUR	EUR
Frame for Cleanroom mats Sticky Mat	grey	1	6.272 245	99,99	88,99
1 mat of 30 sheets	white	10	6.272 241	99,99	88,99
1 mat of 30 sheets	blue	10	6.272 242	99,99	88,99
Set of 10 mats of 30 sheets + 1 frame	white	1	6.272 243	99,99	88,99
Set of 10 mats of 30 sheets + 1 frame	blue	1	6.272 244	99,99	88,99

Homogenisers T 25 easy clean



T 25 easy clean control

High-performance homogeniser with electronic speed control and a large variety of dispersing heads for many fields of applications.

- Quick and easy cleaning of the dispersing tools, no disassembling required
- USB interface for control and documentation via labworldsoft®
- Timer/counter function
- Increased safety through tool recognition and IP-Code

T 25 easy clean control, additionally:

- Integrated temperature measurement for permanent monitoring of the medium temperature
- Remote control with WiCo

Dispersing heads must be ordered separately.

All existing S 25 dispersing elements are compatible with T 25 easy clean digital.

Specifications

Motor rating input/output:	500/400 W
Working volume range (H ₂ O):	1 ... 2000 ml
Viscosity max.:	5000 mPas
Speed range:	3000 ... 25000 rpm
Speed display:	LED
Speed control:	stepless
Noise without element:	70 dB(A)
Extension arm diam.:	13 mm
Dimensions (W x D x H):	89 x 161 x 270 mm
Weight:	3.0 kg
Power supply:	220 ... 240 V, 50 ... 60 Hz
Protection class DIN EN 60529:	IP 30

-99%

Type	Plug type	PK	Cat. No.	Price	Now
				EUR	EUR
T 25 easy clean digital	EU	1	6.291 622	99,99	88,99
T 25 easy clean digital	UK	1	6.325 670	99,99	88,99
T 25 easy clean digital	CH	1	4.691 823	99,99	88,99
T 25 easy clean control	EU	1	4.665 087	99,99	88,99
T 25 easy clean control	UK	1	4.691 825	99,99	88,99
T 25 easy clean control	CH	1	4.691 824	99,99	88,99

Dispersing heads for T25 easy clean



S 25 N - 25 G

Stainless steel dispersing heads: Ultimate fineness: emulsions 1µm to 10µm and suspensions 5µm to 50µm, sterilisable by all methods.

-99%

Type	Diam. rotor / stator mm	Material	PK	Cat. No.	Price	Now
					EUR	EUR
S 25 N - 18 G	12.7 / 18	PTFE, AISI 316L	1	9.571 119	99,99	88,99
S 25 N - 25 G	17.0 / 25	PTFE, AISI 316L	1	9.571 200	99,99	88,99
S 25 N - 25 F	18.0 / 25	PTFE, AISI 316L	1	9.571 201	99,99	88,99

Dispersiersystem

ULTRA-TURRAX® Tube Drive P control



Tube Drive P control

Powerful motor for the best stirring, dispersing, grinding and homogenisation results, especially suitable for safe processing of infectious, toxic or odour-intensive samples.

- USB interface for experiment control and documentation
- Collecting tray for protection against leaking liquids
- Turbo button for short-term, intensive mixing, dispersing and grinding
- Adjustable reverse operation

Scope of supply:

ULTRA-TURRAX® Tube Drive P control: Device, removal hook, plastic hose for drainage, USB cable, universal power supply with adapters EU/UK/US

ULTRA-TURRAX® Tube Drive P control Workstation: Device, 1 x ST-20, 1 x DT-20, 2 x BMT-20 G/S with glass/stainless steel balls, removal hook, plastic hose for drainage, USB cable, universal power supply with adapters EU/UK/US

Specifications

Motor rating input/output:	36/28 W
Volume:	2 ... 300 ml
Speed range:	400 ... 8000 rpm
Timer:	10 s ... 30 min. (continuously adjustable)
Dimensions (W x D x H):	122 x 178 x 54 mm
Weight:	0.9 kg

-99%

Type	PK	Cat. No.	Price	Now
			EUR	EUR
Tube Drive P control	1	9.729 919	99,99	88,99
Tube Drive P control Workstation	1	9.729 917	99,99	88,99

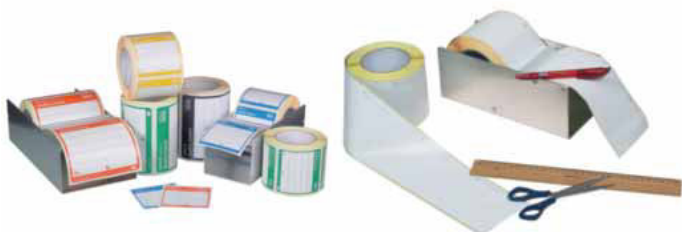
Dispersing tube for Dispersing system ULTRA-TURRAX® Tube Drive



-99%

Type	Description	PK	Cat. No.	Price	Now
				EUR	EUR
DT-20	with dispersing unit, 20 ml	25	9.570 507	99,99	88,99
ST-20	with stirring unit, 20 ml	25	9.570 508	99,99	88,99
BMT-20 G	with glass balls, 20 ml	25	9.570 509	99,99	88,99
BMT-20 S	with stainless steel balls, 20 ml	25	9.570 510	99,99	88,99
BMT-20-S-M-gamma	with stainless steel balls, 20 ml, sterile	20	6.274 088	99,99	88,99

Control seals for sampling close-it



close-it food & pharma ensures aswell the necessary success when resealing sample openings, as it reliably prevents products from escaping after sampling. The adhesive complies with the European guidelines for foodstuffs and FDA guidelines.

-99%

Description	Colour	PK	Cat. No.	Price	Now
Printed, 95 x 95 mm	Red	500	6.228 255	EUR 99,99	EUR 88,99
Printed, 95 x 95 mm	Green	500	9.303 998	99,99	88,99
Printed, 95 x 95 mm	Yellow	500	9.303 996	99,99	88,99
Printed, 95 x 95 mm	Blue	500	9.303 997	99,99	88,99
Printed, 95 x 95 mm	Black	500	9.303 999	99,99	88,99
Plain, 95 x 95 mm	White	500	9.303 986	99,99	88,99
Printed, 150 x 150 mm*	Red	250	9.303 990	99,99	88,99
Plain, 150 x 150 mm*	White	250	9.303 991	99,99	88,99
Printed, Roll, 150mm x 150 mm*	yellow	250	9.304 000	99,99	88,99
Printed, Roll, 150mm x 150 mm*	blue	250	9.304 001	99,99	88,99
Printed, Roll, 150mm x 150 mm*	green	250	9.304 002	99,99	88,99
Printed, Roll, 150mm x 150 mm*	black	250	9.304 003	99,99	88,99

* close-it food & pharma Maxi

All-layer zone collectors, stainless steel V4A



For sampling bulk goods of all types. With open inner tubes for cross-sectional sampling through all layers of the sample. Emptied via the open tube end of the sampler. Tube diameter: 25mm.

Lock seal close-it and close-it food & pharma please order separately.

-99%

Chamber Capacity ml	Length cm	Imm. depth mm	Number openings	PK	Cat. No.	Price	Now
260	150	1355	5	1	9.303 865	EUR 99,99	EUR 88,99
70	55	430	3	1	6.232 190	99,99	88,99
130	85	710	3	1	6.234 598	99,99	88,99

Jars with screw cap, PP



Transparent, cylindrical, tall shape. Food-safe product according to regulation (EU) No. 10/2011.

-99%

Nominal capacity ml	Ext. diam. mm	Height mm	Neck thread GL	PK	Cat. No.	Price	Now
30	38	54	40	1	7.009 276	EUR 99,99	EUR 88,99
60	38	90	40	1	7.009 278	99,99	88,99
180	54	112	56	1	7.009 282	99,99	88,99

Sample bags SteriBag Premium, tamper-proof



- Sterilised by gamma rays (10⁶)
- With integrated tamper-proof closure for manipulation evidence
- Unique identification via tracking number
- Food-safe

-99%

Nominal capacity ml	Width mm	Length mm	PK	Cat. No.	Price	Now
300	145	200	100	9.404 126	EUR 99,99	EUR 88,99

pH Tester LLG-pH Pen



Cost efficient pH tester, ideal for testing small amounts of liquid and in narrow vessels. The supplied storage container prevents the electrode from drying out.

- ATC from 0 °C to 50 °C
- Large, easy-to-read LCD display
- **3-point calibration**

Scope of supply: pH meter

Specifications

pH Measuring range:	0 ... 14
pH Accuracy:	±0.1
pH resolution:	±0.1
Dimensions with electrode (W x D x H):	36 x 20 x 210 mm
Dimensions electrode (diam. x L):	12 x 110 mm
Weight:	72 g
Power supply:	2 x 3 V CR2032 button cell
IP code:	IP 65
Warranty:	2 years

-99%

Type	PK	Cat. No.	Price	Now
LLG-pH Pen	1	6.263 690	EUR 99,99	EUR 88,99

LLG-pH buffer solutions with colour coding



The ready-to-use colour coded LLG-pH buffer solutions offer excellent quality, precision and are designed to suit all end user requirements. Supplied in 1L bottles and conveniently colour coded to eliminate any risk of confusion between the 3 pH values.

- Accuracy ±0.01, tested and certified at 25 °C
- Temperature dependence data table printed on the label
- Traceable to NIST

-99%

pH-value at 25 °C	Colour	Capacity ml	PK	Cat. No.	Price	Now
4,00	Red	1000	1	9.040 865	EUR 99,99	EUR 88,99
7,00	Yellow	1000	1	9.040 866	EUR 99,99	EUR 88,99
10,00	Blue	1000	1	6.324 540	EUR 99,99	EUR 88,99

pH/Redox meter pH 3110 Set SM PRO, LLG Premium Line, incl. pH electrode Sentix 41 and protective cover SM Pro.



The LLG Premium Line is our best selection of high quality and proven devices from our top suppliers.

The meter pH 3110 Set SM PRO is ready-to-use for portable pH and Redox measurement.

- With proven, universal pH electrode Sentix 41
- Additional protection due to protective cover SM Pro made of silicone
- Waterproof according to IP67
- Automatic AutoRead function for reproducible and reliable readings
- 3-point calibration with technical or DIN/NIST buffers
- Integrated calibration timer for reminding to calibrate regularly

Scope of supply: pH meter pH 3110 ProfiLine, pH electrode Sentix 41, buffer STP 4/STP 7 (50 ml each), protective cover SM Pro, KCL solution, measuring beaker (50 ml), electrode holder, carrying case

Specifications

Measuring ranges	
pH:	-2.0 ... 20.0 ; -2.00 ... 20.0 ; -2.000 ... 19.999
Accuracy:	±0.01 (±1 digit) ±0.005 (15 °C ... 35 °C)
mV/Accuracy:	±1200.0/±0.3 ±2000/±1
Temperature:	-5.0 ... 105.0 °C
Accuracy:	±0.1 °C
Temperature compensation:	automatic via pH electrode with integral temperature probe
pH electrode Sentix 41	
Plug type:	DIN
Temperature sensor:	NTC 30 kOhm

Length:	120 mm
Ø:	12 mm
Electrolyte:	Gel
Length cable:	1 m

-99%

Type	PK	Cat. No.	Price	Now
pH 3110 Set SM PRO, LLG Premium Line	1	4.684 148	EUR 99,99	EUR 88,99

LLG-Indicator paper sticks



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



-99%

Range	PK	Cat. No.	Price	Now
pH			EUR	EUR
0 ... 14	100	9.129 807	EUR 99,99	EUR 88,99
0 ... 14	1000	4.667 571	EUR 99,99	EUR 88,99
5,5 ... 9	100	6.322 832	EUR 99,99	EUR 88,99
0 ... 6	100	6.322 833	EUR 99,99	EUR 88,99

Temperature Measurement

Wireless min./max. alarm thermometer type 13090



Wireless min./max. thermometer for monitoring refrigerators and freezers for quality assurance.

Three-channel temperature measurement
Triple display for current, min./max. temperature, as well as indoor/outdoor and wireless temperature
Adjustable Hi/Low alarm
Battery status display

Scope of supply: Bottle temperature sensor with 1 m cable, wireless temperature sensor (transmitter)

Temperature range (internal): 0 ... 50 °C
Temperature range (external, wireless): -40 ... 50 °C
Temperature range (external, cable): -50 ... 70 °C
Accuracy: ±0.5 °C (-20 ... 50 °C), ±1.0 °C (>-20 °C and <50 °C)

Resolution: 0.1 °C
Wireless distance: 50 m (open field), 10 m (refrigerator)

Dimensions display (W x H): 79 x 66 mm **-99%**

Type	PK	Cat. No.	Price	Now
13090	1	6.325 021	EUR 99,99	EUR 88,99

Core thermometer Testo 106



Ideal for quick, simple core temperature measurements in various fields. Wide measurement range and highly accurate. With Auto-Hold function for final reading. Includes sensor protection cap and battery. Calibration certificate on request.

The testo 106-T1 kit also contains a TopSafe protective case and a holster clip for belt or wall.

Specifications

Temperature range (°C): -50 to 275
Accuracy ±1 digit (°C): ±1% of measurement value (100 to 275) ±0.5 (-30 to 99.9) ±1 (-50 to -30.1)
Resolution (°C): 0.1
Power supply: Lithium (CR2032)

-99%

Type	PK	Cat. No.	Price	Now
Testo 106	1	9.718 208	EUR 99,99	EUR 88,99
Testo 106-T1 Kit	1	9.718 209	EUR 99,99	EUR 88,99
TopSafe protective sleeve (IP67)	1	9.718 232	EUR 99,99	EUR 88,99

Data Logger EBI 20-T1



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

Scope of supply:

EBI 20-T1: Temperature Logger

EBI 20-T1-Set: Temperature Logger, evaluation software, Interface

Specifications

Measuring range temperature: -30 to +70 °C
Accuracy temperature: ±0.5 °C (-20 to +40 °C); ±0.8 °C for remaining measuring range
Resolution temperature: 0.1 °C
Memory: 40000 samples
Operating temperature: -30 to +70 °C
Storage temperature: -40 to +70 °C
Measuring period: 1 minute to 24 hours
Power supply: 3 V lithium (CR 2450), can be replaced by user
IP code: IP 67
Housing : ABS
Dimensions (L x W x H): 69 x 48 x 22 mm
Weight: approx. 45 g

-99%

Type	PK	Cat. No.	Price	Now
EBI 20-T1	1	9.908 069	EUR 99,99	EUR 88,99
EBI 20-T1-Set	1	9.908 073	EUR 99,99	EUR 88,99

LLG-General purpose thermometers economy



Solid stem, with loop, capillary yellow enameled, graduation resistant against acids and alkalis. Red filling.

-99%

Measuring range	Graduations	Length	Diam.	PK	Cat. No.	Price	Now
°C	°C	mm	mm			EUR	EUR
-10 ... 50	1	300	6	10	4.679 534	EUR 99,99	EUR 88,99
-10 ... 100	1	300	6	10	4.679 530	EUR 99,99	EUR 88,99
-10 ... 150	1	300	6	10	4.679 531	EUR 99,99	EUR 88,99
-10 ... 200	1	300	6	10	4.679 532	EUR 99,99	EUR 88,99
-10 ... 250	1	300	6	10	4.679 533	EUR 99,99	EUR 88,99



LLG-Timer pro



The LLG-Timer pro can be used simultaneously as real time clock and timer. The countdown timer also runs when time is visible.

- Big 6-digit LCD display
- Digital stopwatch (counting up)
- Short timer (counting down)
- With memory function
- Stopwatch and countdown up to 23 h 59 min. 59 sec.
- Optical and acoustic alarm when timer expires
- Incl. magnet for mounting, hanging bracket and stand (fold-out)

Dimensions (W x H x D): 82 x 68 x 20.5 mm
 Weight (with battery): 82 g
 Power supply: 2 x AAA 1.5 V (not included)
 Warranty: 12 months

-99%

Type	PK	Cat. No.	Price	Now
LLG-timer pro	1	6.311 351	EUR 99,99	EUR 88,99

LLG-Timer Triple pro



The LLG-Timer Triple pro offers three separate timers in one instrument. One time can be stored per channel. This Timer can be used simultaneously as real time clock and timer. The countdown timer also runs when time is visible.

- Big 6-digit LCD display
- Digital stopwatch (counting up)
- Short timer (counting down)
- With memory function
- Stopwatch and countdown up to 23 h 59 min. 59 sec.
- Optical and acoustic alarm when timer expires
- Incl. magnet for mounting, hanging bracket and stand (fold-out)

Dimensions (W x H x D): 68 x 88.7 x 16.2 mm
 Weight (with battery): 87 g
 Power supply: 2 x AAA 1.5 V (not included)
 Warranty: 12 months

-99%

Type	PK	Cat. No.	Price	Now
LLG-Timer Triple pro	1	6.313 417	EUR 99,99	EUR 88,99

LLG-Dual-Timer, 2-channel



The LLG-Dual-Timer offers two separate timers in one instrument. One fixed time can be stored per channel.

- Big 6-digit LCD display
- Digital stopwatch (counting up)
- Short timer (counting down)
- With memory function
- Stopwatch with tenths of a second
- Stopwatch and countdown up to 99 h 59 min. 59 sec
- Optical (red LED) and acoustic alarm (2 volume levels), when timer expires
- Incl. magnet for mounting, hanging bracket and stand (fold-out)

Dimensions (W x H x D): 97 x 79 x 21 mm
 Weight (with battery): 95 g
 Power supply: 2 x AAA 1.5 V (not included)
 Warranty: 12 months

-99%

Type	PK	Cat. No.	Price	Now
LLG-Dual-Timer	1	6.311 350	EUR 99,99	EUR 88,99

LLG-Timer Cube



With 4 pre-set countdown times. Place the cube with the desired time facing up and the counting down starts immediately.

- Pulsing LED when timer is counting
- Automatically rotating flip display shows the remaining time
- After expiration, the elapsed time is displayed until the alarm ends
- Optional pre-alarm shortly before time expires

Dimensions (W x H x D): 60 x 60 x 60 mm
 Weight: 58 g
 Power supply: 2 x 1.5 V AAA (not incl.)

-99%

Type	Description	PK	Cat. No.	Price	Now
LLG-Timer Cube	5-15-30-60 minutes	1	6.291 217	EUR 99,99	EUR 88,99

Precision balance PNJ



PNJ 600-3M

PNJ 3000-2M

With robust tuning fork weighing system for fast display of the weight value, accurate dosing and high mechanical load capacity.

- Models with internal calibration function and guaranteed high accuracy, thus location-independent and ideal for mobile, legal-for-trade applications.
- Capacity indicator: an increasing luminous band shows the still available weighing range
- The models have a removable, large glass draft shield and a weighing chamber of (W x D x H) 172 x 171 x 160 mm
- Large LCD display, digit height 16.5 mm
- Allowable ambient temperature range: 5 to 40 °C
- Universal power supply with adapters EU/UK/US

-99%

Type	Capacity	Readability	PK	Cat. No.	Price	Now
	g	g			EUR	EUR
PNJ 600-3M	620	0.001	1	6.270 591	99,99	88,99
PNJ 3000-2M	3200	0.01	1	7.643 634	99,99	88,99
PNJ 12000-1M	12000	0.1	1	7.644 987	99,99	88,99

LLG-Weighing dishes, aluminium



Made from oil-free, lightweight aluminium. With a flanged, crimped wall for rigidity. Finger-tab handle can be etched for identification prior to weighing.

-99%

Ø	Height	Thickness	PK	Cat. No.	Price	Now
mm	mm	mm			EUR	EUR
43	12	0.3	100	6.238 138	99,99	88,99
57	14	0.3	100	6.238 139	99,99	88,99
70	16	0.3	100	6.238 140	99,99	88,99
101 *	8	0.3	50	6.236 854	99,99	88,99

* without Finger-tab handle

Semi-micro- and analytical balances Cubis® II



Modular premium balances for research and development or analytical laboratories.

- Monolithical weighing system
- Seamless connectivity to diverse laboratory information systems without the need of additional software
- Integrated climate sensor
- Status center notifications
- Full data integrity following ALCOA+ principles
- Supports all requirements for FDA directive 21 CFR part 11 and EU Annex 11 compliance
- Complete traceability via advanced audit trail and reporting function
- Automatic motorised leveling
- Automatic glass draft shield with integrated ionizer
- Large 7" color touch display
- Various QApp packages for optional software extension

-99%

Type	Capacity	Readability	PK	Cat. No.	Price	Now
	g	mg			EUR	EUR
225S, MCA	220	0.01	1	4.670 853	99,99	88,99
224S, MCA	220	0.1	1	4.670 852	99,99	88,99
524S, MCA	520	0.1	1	4.670 879	99,99	88,99

LLG-Weighing paper



- Not treated with nitrogen during production
- Smooth surface
- 45 g/m² paper
- Block of 500 sheets

-99%

Dimensions	PK	Cat. No.	Price	Now
(D x W)			EUR	EUR
mm				
76 x 76	500	6.272 246	99,99	88,99
102 x 102	500	6.272 247	99,99	88,99
152 x 152	500	6.272 248	99,99	88,99

Shaking Incubators ISLD



The Microplate Shakers are optimized for shaking microplates, deep-well plates, or micro-tubes.

- LED displays for temperature, speed and time
- Timer with audible alarm
- Temperature calibration mode
- Soft start
- Heat warning indicator
- Polycarbonate lid
- Universal power supply with adapters EU/UK/US

Scope of supply:

04HDG: Shaking Incubator incl. built-in tray and lid

MPH DG: Shaking Incubators incl. built in tray for microplates, deep-well plates, or micro-tubes and lid

MPH DGL: as MPH DG, but with opaque lid

Specifications

Temperature range:	ambient +5 °C to 65 °C
Temperature uniformity:	±0.5 °C at 37 °C
Speed/Accuracy:	100 to 1200 rpm/±2 %
Timer:	1 s to 160 h
Orbit:	3 mm
Max. Load	
Orbital shaker	3.6 kg
Microplate shaker	4 microplates or 2 racks for microtubes
Permissible ambient conditions:	5 to 40 °C
Power supply:	230 V, 50/60 Hz

-99%

Type	PK	Cat. No.	Price	Now
			EUR	EUR
04HDG	1	4.659 471	99,99	88,99
MPH DG	1	4.659 473	99,99	88,99
MPH DGL	1	4.659 472	99,99	88,99

Test tube shakers Multi Reax



Versatile test tube shaker with a 3 mm shaking orbit.

- Short-time and continuous operation
- Variable speed range
- Timer function from 1 to 999 minutes

Scope of delivery:

- Test tube shaker incl. 2 attachments.
- Attachment for 26 vessels with diameters from 10 mm to 16 mm
- Attachment for 12 vessels with diameters from 16 mm to 32 mm

Specifications

Type of movement:	orbital
Orbit:	3 mm
Speed range:	150 ... 2000 rpm
Power consumption:	50 W
Permissible ambient temperature:	5 ... 31 °C
Permissible relative moisture:	80 %
Dimensions (W x D x H):	270 x 410 x 172 mm
Power supply:	230 ... 240 V/50/60 Hz
IP code:	IP 30

-99%

Type	Plug type	PK	Cat. No.	Price	Now
				EUR	EUR
Multi Reax	EU	1	9.839 810	99,99	88,99
Multi Reax	UK	1	6.204 223	99,99	88,99
Multi Reax	CH	1	6.491 906	99,99	88,99

Rocking Shakers SHRK series

The rocking shaker is ideal for cell culture and blotting applications

- Variable control of speed, tilt angle and time.
- The two-stage model 07AL2 doubles the working capacity
- Flat design
- Timer
- Suitable for CO₂ environment
- Universal power supply with adapters EU/UK/US

Scope of supply:

07AL1/04DG: Shaker incl. built-in tray with non-slip rubber mat

07AL2: as 07AL1/04DG, additionally incl. second tray with screws and mat

Specifications

Type of movement:	rocking
Rocking angle:	0 to 15°
Timer models analogue/digital:	1 to 120 min/1 s to 160 h
Permissible ambient conditions:	-10 to +60 °C
Power supply:	230 V, 50/60 Hz

-99%

Type	Display type	PK	Cat. No.	Price	Now
				EUR	EUR
07AL2	analogue	1	4.659 477	99,99	88,99
04DG	digital	1	4.659 481	99,99	88,99



07AL2



04DG

LABORTOPS

Magnetic stirrer Hei-PLATE Mix 'n' Heat Core+, LLG Premium Line, incl. temperature sensor Pt1000 with holder, support rod and silicone cover



The LLG Premium Line is our best selection of high quality and proven devices from our top suppliers.

Convincing quality

- The sealed housing protects the electronic and mechanical components from aggressive chemicals and liquids
- The patented Kera-Disk® hot plate made of anodized aluminum is chemical-resistant, scratch-resistant and allows fast heating rates

Excellent functionality and best user comfort

- Accurate to the degree adjustment of the desired hotplate temperature by turn-push-button
- Precise setting options and monitoring of the device parameters via the digital display
- Fast and precise temperature control without overshoot via two selectable heating modes (FAST/PRECISE) and the Pt1000 temperature sensor
- An illuminated button indicates clearly if the stirring mode is activated

Highest safety

- In case the heating function fails, stirring will not be discontinued to prevent bumping
- The locking function protects against accidental changing of the values
- An independent second safety circuit switches off heating in case of any overtemperature situation
- Overheating protection by a safety circuit that switches off heating if the temperature sensor is not immersed in the media vessel
- Optical residual heat warning at temperatures >50 °C

Scope of supply: Magnetic stirrer Hei-PLATE Mix 'n' Heat Core+, temperature sensor Pt1000 (V4A), holder for Pt1000 (incl. support rod, retainer with cable guide), silicone cover

Specifications

Stirring quantity (H ₂ O):	20 l
Speed range:	100 ... 1400 rpm
Heating power:	800 W
Temperature range:	20 ... 300 °C
Permissible ambient temperature:	5 ... 31 °C
Permissible relative moisture:	80 %
Plate material:	Kera-Disk®
Plate dimensions:	Ø 145 mm
Dimensions (W x D x H):	168 x 299 x 101 mm
Weight:	3 kg
Power supply:	230 V
IP code:	IP 42
Warranty:	3 years



Type	Plug type	PK	Cat. No.	Price	Now
				EUR	EUR
Hei-PLATE Mix 'n' Heat Core+	EU	1	6.490 528	99,99	88,99
Hei-PLATE Mix 'n' Heat Core+	UK	1	6.325 676	99,99	88,99
Hei-PLATE Mix 'n' Heat Core+	CH	1	6.325 675	99,99	88,99

-99%