



**NEW BRAND
BIOSOLUTE®**

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**VALID UNTIL
31/03/2024**

LABSOLUTIONS

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LABORATORY BOTTLES

LABORATORY BOTTLES, CLEAR, WITH PP SCREW CAPS, PUR COATED, BOROSILIKATGLAS 3.3



With blue pouring rings and screw caps made of PP with integrated lip seal. Autoclavable at 121 °C. The transparent coating leads to a higher resistance of the bottles against strikes and shocks, and prevents leaking in case of bottle breaking.

Capacity	Ext. Ø	Height	Neck thread	PK	Cat. No.
ml	mm	mm	GL		
250	70	138	45	1	7.690 401
500	86	176	45	1	7.690 402
1000	101	225	45	1	7.690 403
2000	136	260	45	1	7.690 404
5000	181	330	45	1	7.690 405
Height without screw cap					

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

*** Minimum purchase of 10 PK**

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

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)

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

LABORATORY BOTTLES, DURAN®, WITH RETRACE CODE, WITH SCREW CAP



With blue PP screw cap and pouring ring.

*** Minimum purchase of 10 PK**

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

SHAPE THE FUTURE? VERY MUCH SO. A LOOK AHEAD TO THE LAB YEAR

Dear customers,

The new year is a good occasion to look ahead to the future. We have a lot planned for 2024 to make purchasing for your laboratory supplies even more attractive and to optimise it through services. Our own brands LABSOLUTE® and CHEMSOLUTE® will be joined by BIOSOLUTE®, the new brand especially for the life science sector. In Höxter, at the location of our second business unit Ingredients, we are opening a new, modern logistics centre for laboratory chemicals. This will ensure greater availability of goods and secure supplies. We are working very forward-looking on our sustainability strategy, which we have had evaluated by EcoVadis. We are continuing our successful webinar series with renowned lab partners. You will also receive valuable practical knowledge for your work at our laboratory trade fair LABSOLUTIONS live, this time in Troisdorf. We have a lot planned for you and with you. Because we understand and we love lab - you can take that literally, now and in the future.

Lutz-Alexander Geyer
Managing Director

Oliver-Alexander Geyer
Managing Director



YOUR PARTNER
FOR THE LAB
2024



FILTER FLASKS, WITH GLASS OLIVE, BOROSILICATE GLASS 3.3



Erlenmeyer shape. With glass olive. Borosilicate glass 3.3. ISO 6556 and DIN 12476. Autoclavable. Vacuum-proof. Due to the glass olive the flasks do not comply with the requirements of the equipment and product safety law.

Capacity ml	Neck Ø mm	Height mm	PK	Cat. No.
100	17	107	1	7.690 200
250	28	158	1	7.690 201
500	34	188	1	7.690 202
1000	37	242	1	7.690 203
2000	41	288	1	7.690 204

BEAKERS, LOW FORM, BOROSILICATE GLASS 3.3



DIN 12331. ISO 3819. Borosilicate glass 3.3. With volume scale and spout.

Capacity ml	Ø mm	Height mm	PK	Cat. No.
25	34	50	10	7.690 002
50	42	60	10	7.690 003
100	50	70	10	7.690 004
150	60	80	10	7.690 005
250	70	95	10	7.690 006
400	80	110	10	7.690 007
600	90	125	10	7.690 008
800	100	135	10	7.690 009
1000	105	145	10	7.690 010
2000	130	185	4	7.690 011

External beaker diameter, without spout

GLASSWARE

THREE NECK ROUND BOTTOM FLASKS, SIDE NECKS PARALLEL, BOROSILICATE GLASS 3.3



DIN 12394. Borosilicate glass 3.3.
Durable volume scale.

Capacity	Centre neck	Side neck	Flask Ø	Height	PK	Cat. No.
ml	NS	NS	mm	mm		
100	29/32	14/23	64	105	1	7.690 160
250	29/32	14/23	85	140	1	7.690 161
250	29/32	29/32	85	140	1	7.690 170
500	29/32	14/23	105	163	1	7.690 162
500	29/32	29/32	105	163	1	7.690 171
1000	29/32	14/23	131	200	1	7.690 163
1000	29/32	29/32	131	200	1	7.690 172
2000	29/32	14/23	165	240	1	7.690 164
2000	29/32	29/32	165	240	1	7.690 173
3000	29/32	29/32	185	260	1	7.690 174
5000	29/32	29/32	223	305	1	7.690 175

PEAR SHAPED FLASKS, WITH STANDARD GROUND JOINT, BOROSILICATE GLASS 3.3



DIN 12383. Borosilicate glass 3.3.
Durable volume scale.

Capacity	Socket	Flask Ø	Height	PK	Cat. No.
ml	NS	mm	mm		
10	14/23	31	74	1	7.690 120
25	14/23	42	90	1	7.690 121
50	14/23	51	100	1	7.690 122
50	29/32	51	100	1	7.690 123
100	14/23	64	130	1	7.690 124
100	29/32	64	130	1	7.690 125
250	14/23	85	150	1	7.690 126

SEPARATING FUNNELS ACC. TO SQUIBB, BOROSILICATE GLASS 3.3



Acc. to Squibb. Borosilicate glass 3.3.
Comply with DIN ISO 4800. Including
PTFE stopcock and PE stopper.

Capacity	Socket	Bore	PK	Cat. No.
ml	NS	mm		
50	19/26	2.5	1	7.690 240
100	19/26	2.5	1	7.690 241
250	29/32	4.0	1	7.690 242
500	29/32	4.0	1	7.690 243
1000	29/32	6.0	1	7.690 244
2000	29/32	6.0	1	7.690 245

FLAT BOTTOM FLASKS, WITH STANDARD GROUND JOINT, BOROSILICATE GLASS 3.3



DIN EN ISO 4797. Borosilicate glass 3.3.
Durable volume scale.

Capacity	Socket	Flask Ø	Height	PK	Cat. No.
ml	NS	mm	mm		
50	29/32	51	85	1	7.690 110
100	29/32	64	103	1	7.690 111
250	29/32	85	130	1	7.690 112
500	29/32	105	160	1	7.690 113
1000	29/32	131	187	1	7.690 114
2000	29/32	166	230	1	7.690 115

HAND PROTECTOR GRIP HEATGUARD



Red silicone rubber. Temperature resistant from -50 to +250 °C.
Nobs on HeatGuard's surface make sure that there is a safe, slip
resistant grip all the time. You can store the hand protector grip by
using one of the two eyelets.

Description	PK	Cat. No.
Hand protector grip HeatGuard	1	7.696 925

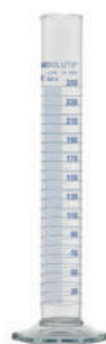
MEASURING CYLINDERS, LOW FORM, CLASS B, AMBER GRADUATION



Low form. Class B. Made from borosilicate glass 3.3. With functional spout and solid hexagonal glass base. Calibrated to "In" (20 °C). Comply with DIN EN ISO 4788.

Capacity ml	Grad. ml	Tolerance ± ml	Height mm	PK	Cat. No.
10	1	0.3	97	1	7.691 010
25	1	0.5	120	1	7.691 011
50	1	1.0	145	1	7.691 012
100	2	1.0	165	1	7.691 013
250	5	2.0	215	1	7.691 014
500	10	5.0	250	1	7.691 015
1000	20	10.0	290	1	7.691 016
2000	50	20.0	340	1	7.691 017

MEASURING CYLINDERS, HIGH FORM, CLASS A, BLUE GRADUATION



High form. Class A. Made from borosilicate glass 3.3. With functional spout and solid hexagonal glass base. Calibrated to "In" (20 °C). Comply with DIN EN ISO 4788. Batch-specific certificate of conformity is available on request.

Capacity ml	Grad. ml	Tolerance ± ml	Height mm	PK	Cat. No.
5	0.1	0.05	115	1	7.691 000
10	0.2	0.1	135	1	7.691 001
25	0.5	0.25	160	1	7.691 002
50	1	0.5	195	1	7.691 003
100	1	0.5	240	1	7.691 004
250	2	1.0	320	1	7.691 005
500	5	2.5	380	1	7.691 006
1000	10	5.0	465	1	7.691 007
2000	20	10.0	565	1	7.691 008

MEASURING CYLINDERS, HIGH FORM, CLASS B, WHITE GRADUATION



High form. Class B. Made from borosilicate glass 3.3. With functional spout and solid hexagonal glass base. Calibrated to "In" (20 °C). Comply with DIN EN ISO 4788.

Capacity ml	Grad. ml	Tolerance ± ml	Height mm	PK	Cat. No.
5	0.1	0.1	115	1	7.691 160
10	0.2	0.2	140	1	7.691 161
25	0.5	0.5	170	1	7.691 162
50	1	1	200	1	7.691 163
100	1	1	260	1	7.691 164
250	2	2	335	1	7.691 165
500	5	5	390	1	7.691 166
1000	10	10	470	1	7.691 167
2000	20	20	570	1	7.691 168

MEASURING CYLINDERS, HIGH FORM, CLASS A, PMP



According to DIN 12681 and ISO 6706. Calibrated to "In" (20 °C). Stable hexagonal base. Embossed scale. Functional spout. Dishwasher-proof and autoclavable. A batch-specific certificate of conformity is available on request.

Autoclaving at 121 °C according to DIN EN ISO 285 will not cause permanent exceeding of the tolerance limits of class A. Cleaning at max. 60 °C and the use of soft cleaning agents is recommended to preserve the embossed scale.

Capacity ml	Grad. ml	Tolerance ± ml	Height mm	PK	Cat. No.
25	0,5	0.25	170	1	7.693 110
50	1	0.5	200	1	7.693 111
100	1	0.5	250	1	7.693 112
250	2	1	325	1	7.693 113
500	5	2.5	388	1	7.693 114
1000	10	5	459	1	7.693 115
2000	20	10	533	1	7.693 116

SEALING FILMS, BRAND SEAL-R-FILM™

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

Width mm	Length m	Thickness mm	Temp. range °C	PK	Cat. No.
50	75	0.14 ± 0,02	-20 ... 46	1	9.170 022
100	38	0.14 ± 0,02	-20 ... 46	1	9.170 021
100	75	0.14 ± 0,02	-20 ... 46	1	9.170 023
500	15	0.14 ± 0,02	-20 ... 46	1	9.170 024



DRYING AND HEATING CABINETS

DRYING AND HEATING CABINETS



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 WITH NATURAL CONVECTION

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

Type	PK	Cat. No.
ED-S 56	1	4.665 042

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

Type	PK	Cat. No.
ED-S 115	1	4.667 816

FD-S 56 SOLID.LINE WITH FORCED CONVECTION

With forced convection for homogenous temperature distribution.

Specifications

Temperature range:	RT + 10 °C ... 250 °C
Temperature variation at 150 °C:	±2,6 °C
Heating-up time to 150 °C:	20 min
Permitted load:	30 kg
Weight:	38 kg
Power supply:	230 V, 50/60 Hz

Type	PK	Cat. No.
FD-S 56	1	4.665 196

FED SERIES - AVANTGARDE.LINE

The drying chambers with convection impress with their new design, ease of use and efficiency as well as high temperature accuracy thanks to the latest APT.line™ technology.

Features:

- Temperature range: 10 °C above RT to 300 °C
- Controller with LCD display
- Electromechanical control of the exhaust air flap
- Integrated temperature selector limiter class 2 (DIN 12880) with visual alarm
- USB port for data recording

Two slide-in grilles are included
in the scope of delivery.

Type	Nom. capacity	Max. grids	External dimensions (W x D x H) mm	PK	Cat. No.
FD 56	60	4	560 x 565 x 625	1	6.280 069
FD 115	116	5	710 x 605 x 735	1	4.658 060

MULTICHANNEL PIPETTES



LABSOLUTE®

LABSOLUTE® offers both eight-channel and twelve-channel pipettes with different volume ranges. As with the single-channel pipettes, the colour codes on the push button help you to quickly and reliably recognize the volume ranges at a glance.

Revolutionary spring system

The individual shafts can glide back separately as soon as they are pressed against a pipette tip. This ensures that each pipette tip is firmly and tightly attached.

Innovative ejection mechanism

The ejection is designed in such a way that the tips can be taken off in stages. This reduces the amount of force required considerably - providing a noticeable comfort in daily use.

Individual 360° adjustment

The pipetting unit can be rotated around 360°, allowing optimized and comfortable working.

EIGHT-CHANNEL

Volume range	Colour code	Grad.	PK	Cat. No.
μl		μl		
5 - 50	Yellow	0.1	1	7.695 710
20 - 200	Yellow	0.2	1	7.695 711
50 - 300	White	1.0	1	7.695 712

TWELVE-CHANNEL

Volume range	Colour code	Grad.	PK	Cat. No.
μl		μl		
5 - 50	Yellow	0.1	1	7.695 713
20 - 200	Yellow	0.2	1	7.695 714
50 - 300	White	1.0	1	7.695 715

SINGLE-CHANNEL PIPETTES



LABSOLUTE®



User-friendliness and superlative quality make the LABSOLUTE® single-channel pipettes the perfect instrument for your laboratory. The colour coding on the push button allows the volume range of the pipettes to be recognized at a glance.

Easy personalization

The pack contains seven coloured rings (in red, white, yellow, black, pink, violet and green). These allow you to mark the pipette and thereby visually assign them at a glance.

Stable shaft

The high-quality material ensures particular stability and longevity for the pipettes, even in high-use situations.

Contamination-free working

The pipettes in the larger volume range (7.695 706) have an exchangeable sterile filter in the shaft which protects against cross-contamination and must be removed before autoclaving. All other models are fully autoclavable.

Volume range	Colour code	Grad.	PK	Cat. No.
μl		μl		
0.1 - 2	White	0.002	1	7.695 700
0.5 - 10	White	0.02	1	7.695 701
2 - 20	Yellow	0.02	1	7.695 702
10 - 100	Yellow	0.2	1	7.695 703
20 - 200	Yellow	0.2	1	7.695 704
100 - 1000	Blue	2.0	1	7.695 705
500 - 5000	White	10	1	7.695 706

PASTEUR PIPETTES, LDPE

LABSOLUTE® pasteur pipettes are made of transparent LDPE and are suitable for food testing. Sterile also available in environmentally friendly blister with 10 pasteur pipettes.

Capacity	Sterile	Package	Length	Grad.	Drop volume	PK	Cat. No.
ml			mm	ml	ml		
1	No	Bulk	154	0.25	0.040	500	7.691 200
1	Yes	Individually, blistered	154	0.25	0.040	500	7.691 201
3	No	Bulk	154	0.5	0.040	500	7.691 202
3	Yes	Individually, blistered	154	0.5	0.040	500	7.691 203

LABSOLUTE®



7.691 200, 7.691 201



7.691 202, 7.691 203

PIPETTE TIPS WITHOUT AEROSOL BARRIER IN RACKS, STERILE

The 0.1-10 XL/20 μl tips (7.695 871) are compatible with 20 μl Eppendorf Reference®, Eppendorf Research® Plus and Brand Transferpette®.

Volume range	Colour	Overall length	Grad.	Pack size	PK	Cat. No.
μl		mm	μl	pieces		
0.1 - 10	Transparent	31	2, 10	10 x 96	960	7.695 870
0.1 - 10 XL/20	Transparent	44	1, 5, 10, 20	10 x 96	960	7.695 871
2 - 200	Transparent	53	10, 50, 100	10 x 96	960	7.695 872
2 - 200	Yellow	53	10, 50, 100	10 x 96	960	7.695 873
20 - 300	Transparent	55	50, 100, 200	10 x 96	960	7.695 874
100 - 1000	Transparent	71	100, 500	10 x 96	960	7.695 875
100 - 1000	Blue	71	100, 500	10 x 96	960	7.695 876
100 - 1250	Transparent	76	-	10 x 96	960	7.695 877
100 - 1250 XL	Transparent	98	200, 500, 1000	10 x 96	960	7.695 878

LABSOLUTE®



LIQUID HANDLING

PERISTALTIC PUMP LLG-uniPERISTALTICPUMP 1



- **Compact peristaltic pump**
- **Interchangeable pump heads**



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

Type	Plug type	PK	Cat. No.
LLG-uniPERISTALTICPUMP 1	EU	1	6.263 540
LLG-uniPERISTALTICPUMP 1	UK	1	6.263 541

ACCESSORIES FOR LLG-UNIPERISTALTICPUMP 1/3

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

ID = Inner diameter || OD = Outer diameter
*LLG-uniPERISTALTICPUMP 1 || **LLG-uniPERISTALTICPUMP 3

PERISTALTIC PUMP LLG-uniPERISTALTICPUMP 3



High volumetric efficiency



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

Type	Plug type	PK	Cat. No.
LLG-uniPERISTALTICPUMP 3	EU	1	6.263 550
LLG-uniPERISTALTICPUMP 3	UK	1	6.263 551

DRUM PUMP PUMP-IT®

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



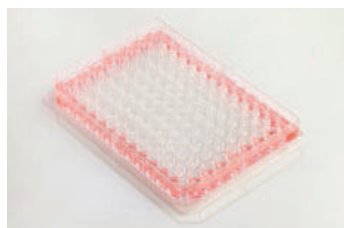
- Precise dosing, without dripping
- Pump connection suitable for 64 mm dia. (BSI) container threads
- stepless length adjustment of immersion tube
- Threaded adapters for most commercially-sold containers available
- Not suitable for HCl



Immersion depth mm	Flow rate L / min.	Material	PK	Cat. No.
1000	8	PP/FKM	1	9.001 110

96-WELL PLATE NUNC™ EDGE 2.0, WITH FLAT BOTTOM, CLEAR, PS

thermo
scientific



- 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 1.7 mL 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: 400 µL

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

CELL CULTURE FLASKS, TREATED, STERILE, PS

LABSOLUTE®



The cell culture flasks from LABSOLUTE® are made exclusively of PS, corresponding to the highest international standards (USP Class VI). A short, wide and angled neck allows an easy handling while the risk of contamination is minimized. The treatment of surfaces allows adherent cells a uniform and even cell adhesion.

- Short and wide sloping neck for easy access
- Easily stackable
- Both flasks sides have engraved graduation with a labelling area
- Screw cap with a hydrophobic 0.22 µm filter for ventilation
- Packed upright in resealable bags
- Surface is treated with vacuum gas plasma
- Sterilized by radiation (SAL 10⁻⁶)

Growth area cm ²	Working volume ml	Total volume ml	Sterile Sub-PK Pieces	PK	Cat. No.
12.5	20	25	10	200	7.696 780
25.0	40	50	10	200	7.696 781
75.0	175	250	5	100	7.696 782
182.5	400	600	5	40	7.696 783

ASPIRATOR LLG-uniVACUUSYS



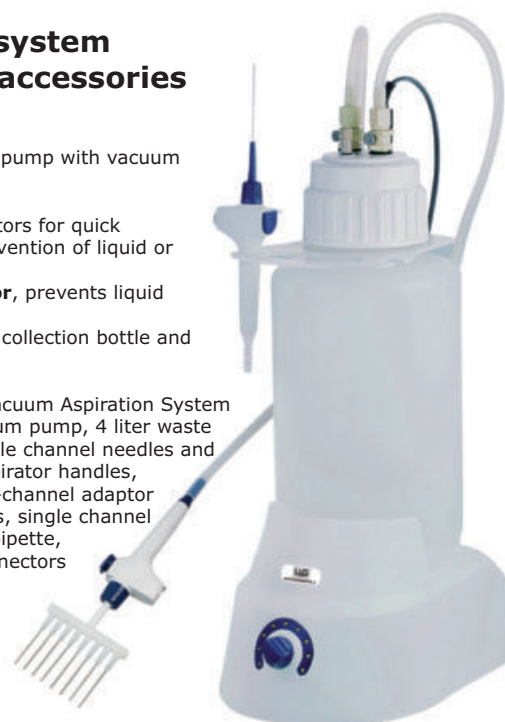
3 YEARS
WARRANTY



- Complete system
- Extensive accessories included

- 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

Type	Plug type	PK	Cat. No.
LLG-uniVACUUSYS	EU	1	6.263 585
LLG-uniVACUUSYS	UK	1	6.263 586

CELL CULTURE DISHES, TREATED, STERILE, PS

LABSOLUTE®



All LABSOLUTE® cell culture dishes are made of high-quality, optically clear PS, so that they are also suitable for microscopy. The treatment of surfaces allows adherent cells a uniform and even cell adhesion.

- Effective gas exchange
- Easily stackable
- 60 mm and 100 mm dishes with grip ring
- Surface is treated with vacuum gas plasma
- Sterilized by radiation (SAL 10⁻⁶)

Ø	Height	Growth area cm ²	Sterile Sub-PK Pieces	PK	Cat. No.
mm	mm	cm ²	Pieces		
60	18	21.2	10	600	7.696 771
100	22	60.8	10	300	7.696 774
150	22	143.0	1	120	7.696 775

PIPETTE CONTROLLER



Pipetting made easy - the wireless LABSOLUTE® Pipette assistant ensures comfortable working with glass and plastic pipettes (0.1 - 100 ml).

- Effortless pipetting thanks to the ergonomic grip and smooth-running buttons
- Simple operation with one hand
- High working speed: a 25 ml pipette is filled in less than four seconds
- Extremely quiet and powerful motor with three speed settings
- The charging device prevents overloading or heating of the battery
- Exchangeable membrane filters protect the device mechanism against contamination
- Differently coloured autoclavable cones allow customization

The supplied package includes charger, batteries, desktop stand, wall mount bracket and two spare membrane filters (PTFE 0.2 µm, PTFE 0.45 µm). You will also receive three differently coloured pipette holder cones (blue, green and orange). Accessories can be ordered separately if required.

Specifications

Volume range:	0.1 to 100 ml
Power supply:	2x 1,2 V/1.000 mAh NiMH Akkus
Battery life:	8 hours in continuous operation
Battery charging time:	2 - 3 hours

Description	PK	Cat. No.
Pipette controller with accessories	1	7.696 030

GRADUATED PIPETTES, CLASS AS, TYPE 3, AMBER GRADUATION



DIN EN ISO 835. Made from soda-lime glass. Type 3. With batch identification. Calibrated to "Ex" (+5 seconds). Class AS. Labelling in brown colour. A batch-specific certificate of conformity is available on request.

Capacity	Length	Colour code	Graduation	PK	Cat. No.
ml	mm		ml		
1	360	Yellow	0.01	6	7.691 050
2	360	Black	0.02	6	7.691 051
5	360	Red	0.05	6	7.691 052
10	360	Orange	0.10	6	7.691 053
20	360	Yellow stripes	0.10	3	7.691 054
25	450	White	0.10	3	7.691 055
50	450	Black	0.20	3	7.691 056

Length ±10 mm

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.

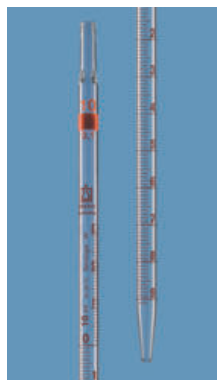
- One-hand operation
- For glass and plastic pipettes from 0.1 to 200 ml
- Precise volume setting
- Integrated rest position

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.
anthracite	1	4.682 331
berry	1	4.682 332
petrol	1	4.682 333
amethyst	1	4.682 334

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

*** Minimum purchase of 12 PK**

Volume	Graduations	Length	PK	Cat. No.
ml	ml	mm		
1	0.01	360	1	7.018 389
2	0.02	360	1	7.018 390
5	0.1	360	1	7.018 391
10	0.1	360	1	7.018 392
25	0.1	450	1	6.231 857

STRIPS OF 4/8 PCR TUBES, PP



LABSOLUTE®



The LABSOLUTE® strips of 4/8 PCR tubes offer optimum heat transfer between the thermal cycler and the reaction mix through their extra thin and uniform vessel walls.

- Secure sealing reduces evaporation
- Available with flat and domed caps
- High quality PP
- Free from DNase, RNase and human DNA
- Standard profile with 0.2 ml working volume
- Low profile with 0.1 ml working volume
- Autoclavable at 121 °C

Description	Capacity ml	Colour	PK	Cat. No.
Strips of 8 PCR tubes with flat caps	0.2	Transparent	125	7.696 510
Strips of 8 PCR tubes with domed caps	0.2	Transparent	125	7.696 511

PCR TUBES 0.2 ML, PP



LABSOLUTE®



The LABSOLUTE® PCR tubes offer optimum heat transfer between the thermal cycler and the reaction mix through their extra thin and uniform vessel walls.

- Compatible with all major thermal cyclers
- Available with flat and domed caps
- Easy and safe opening and closing with one hand
- High-quality PP (metal-free)
- Free from DNase, RNase, human DNA, pyrogens and PCR inhibitors
- Autoclavable at 121 °C

Description	PK	Cat. No.
Flat caps	1000	7.696 502
Domed caps	1000	7.696 503

UV/PCR cabinets UVT-B-AR

grant

! UV exposure control with internal socket



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

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

WATER FOR MOLECULAR BIOLOGY

BIOSOLUTE®

Not treated with diethyl pyrocarbonate (DEPC). DNase-, RNase- and protease-free water for versatile use in molecular biology. This BIOSOLUTE® water is produced by a combination of reverse osmosis and ion exchange purification, then sterile-filtered with a pore size of 0.1 µm. The endotoxin content is particularly low and it is free of chemical additives.

Description	Package size	PK	Cat. No.
Water for molecular biology	500 ml	1	7711.0500
Water for molecular biology	1 l	1	7711.1000

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 7 cm 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

Description	PK	Cat. No.
MultiSUB Mini DUO	1	7.920.043

RACKS FOR PCR TUBES,
96 WELLS, PP



The autoclavable LABSOLUTE® racks made of PP are suitable both for 96 (Ø well 5.2 mm) single 0.2 ml tubes and for strips of PCR tubes. The individual positions are marked with figures and letters which simplifies organization of your samples. With or without lid - the decision is yours: the hinged lid can be completely removed.

- Available in different colours
- Dimensions (W x H x D): 130 x 33 x 98 mm

Colour	PK	Cat. No.
Blue, yellow, green, orange, pink	5	7.696.360
Blue	1	7.696.361
Green	1	7.696.362
Transparent	1	7.696.363

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 400 mA
- 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

Type	Rating	Supply requirements	PK	Cat. No.
nanoPAC-300P Mini	W 60	300 V / 400 mA	1	6.272.711

AGAROSE FOR
ELECTROPHORESIS



Our high quality BIOSOLUTE® Agarose products are ideally suited for analytical and preparative routine methods in electrophoresis, such as separation of DNA and RNA fragments as well as PCR products, but also for protein electrophoresis, screening and blotting techniques.

Agarose Standard

- Electroendosmosis (EEO) 0.14-0.16
- Efficient separation of nucleic acid fragments from 250 bp to 23 kbp
- Excellent solubility and fast gelling
- High transparency and low background for clear and defined bands

Agarose low electroendosmosis

- Low EEO (0.05-0.13) ensures high electrophoretic mobility
- Extraordinary mechanical resistance and high thermal stability
- Excellent transparency and low absorbance of staining reagents give high gel clarity

Description	Capacity g	PK	Cat. No.
Agarose Standard, for routine applications in electrophoresis	500	1	9920.0500
Agarose low electroendosmosis (EEO)	500	1	9953.0500

SAFETY BUNSEN BURNER, SCHUETT PHOENIX II

schuett **biotec**.de



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

Type	PK	Cat. No.
schuett phoenix II eco*	1	9.018 760
schuett phoenix II standard*	1	9.018 761
schuett phoenix II accu	1	9.018 762

*incl. foot switch, stainless steel

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: 60 mm. Wire diameter: 0.5 mm.

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

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

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

PETRI DISH TURNTABLES, SCHUETT PETRITURN

schuett **biotec**.de



manuell



electric

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

schütt petrurn-M

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

schütt petrurn-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.

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

DISPOSABLE INOCULATION LOOPS, STERILE



LABSOLUTE®

The LABSOLUTE® disposable inoculation loops have a flexible loop at one end to inoculate soft agar culture media and a needle for picking individual colonies at the other end. The disposable inoculation loops are packed sterile in a paper/plastic blister of 20 pieces.

- Length: 195 mm

Capacity µl	Colour	PK	Cat. No.
10	Blue	2000	7.696 430
1	White	2000	7.696 431

PETRI DISHES, PS



LABSOLUTE®

Made of crystal-clear PS. Prepared and packed under aseptic conditions. Sterilisation is done by beta rays. Perfectly stackable. Heat-resistant from -40 - 70 °C.

Packed in sub-units of 10 plates (Ø = 60 and 150 mm), 15 plates (Ø = 55 mm) or 20 plates (Ø = 90 mm).

Outer Ø mm	Vents	Sterile	PK	Cat. No.
55	Yes	Yes	1005	7.696 409
60	Yes	Yes	1080	7.696 410
60	No	Yes	1080	7.696 411
90	Yes	No	480	7.696 390
90	Yes	Yes	480	7.696 392
90	No	No	480	7.696 391
90	No	Yes	480	7.696 393
150	Yes	Yes	160	7.696 412

PETRIFILM RACK



The LABSOLUTE® petrifilm rack is suitable for the storage of 3M petrifilms. Using the rack the films can be stored space-saving and economic in every common incubator. The rack is made of white powder-coated metal wire.

- Capacity for up to 100 petrifilms
- Heat-resistant
- Dimensions (W x H x D) 82 x 97 x 93 mm

Description	PK	Cat. No.
Petrifilm rack	1	7.697 011

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

Type	PK	Cat. No.
Clean-Trace™ LM1	1	4.665 172

LLG-DRY SWABS, STERILE



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

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

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

DRY SWABS CLEAN-TRACE™



Type	Description	PK	Cat. No.
MPRO50	Surface Protein Plus	50	4.665 741
ATP	Positive control for surface	100	4.672 003

DRY SWABS FOR LUMINOMETER 3M™ CLEAN-TRACE™ NG3/LM1



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

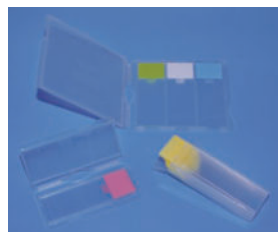
MICROSCOPE SLIDE FOLDERS, CARDBOARD



Recesses for safe storage. Thumb cuts for easy slide removal. Printed index. Black. Suitable for microscope slides with 76 x 26 mm.

Capacity	Dimensions W x H x D mm	PK	Cat. No.
20 slides	208 x 9 x 341	1	7.695 060
30 slides	281 x 10 x 328	1	7.695 061

LLG-SLIDE MAILERS

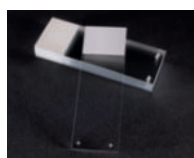


Manufactured from high density polypropylene, for shipping, storing or staining slides. Flat mailers can hold 1, 2, 3 or 5 standard (up to 76 mm x 26 mm) slides securely.

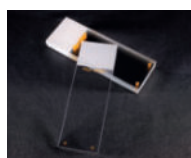
- Light weight and flat
- With marking area and "Top" printed on top surface
- With large, easy-to secure snaps.
- Slotted channels inside mailer keep slides safely separated

To hold microscope slides	PK	Cat. No.
1	10	9.161 291
2	10	9.161 292
3	10	9.161 293
5	10	9.161 294

SUPERFROST® PLUS ADHESIVE MICROSCOPE SLIDES



Plus



Plus Gold



Size: 75 mm x 25 mm x 1.0 mm. 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.

Type	PK	Cat. No.
SuperFrost® Plus	72	9.161 155
SuperFrost® Plus Gold (suitable for thicker tissue sections)	72	6.700 125

DIGITAL REFRACTOMETER ORL



2 scales in
one device



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 x 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

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

ADHESION SLIDES FOR TISSUE SECTIONS



Adhesion slides ensure quicker flatness and better adhesion of the samples. The microscope slides with a white frosted area and ground edges are supplied in shrink-wrapped plastic boxes of 72 pieces. The angle of the edges and corners for both items is 90°.

Description	PK	Cat. No.
(+) positively charged	72	7.695 019
Silanized surface	72	7.695 021

SPECTROPHOTOMETERS XD 7000 VIS AND XD 7500 UV-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:
Wavelength range:
Bandwidth:
Wavelength accuracy:
Wavelength repeatability:
Photometric range:
Photometrical resolution/Transmission:
Photometric accuracy/repeatability:
Photometrical linearity:
Drift:
Internal Storage:
Lamps:
Dimension (W x D x H):
Weight:
Power supply:
Protection class:

XD 7000 VIS // XD 7500 UV-VIS

grid monochromator with reference beam
320 - 1100 nm // 190 - 1100 nm
4 nm
±1 nm on all Holmium peaks
better than 0.5 nm
-3.3 to +3.3 Abs
0.001 Abs/0.1 %
0.003 Abs below 0.6 Abs
0.5 % from 0.6 to 2.0 Abs
<1 % up to 2.0 Abs between 340 to 900 nm
<0.005 Abs per hour after 15 minutes heat up time
40 MB for approx. 5000 data sets
Tungsten-halogen-lamp // Xenon flash lamp
422 x 323 x 195 mm
approx. 4.5 kg
100 - 240V, 50/60 Hz
IP 30

Type	PK	Cat. No.
XD 7000 VIS	1	6.272 436
XD 7500 UV-VIS	1	6.272 437

DISPOSABLE CUVETTES FOR THE VIS RANGE



- Increased heat transfer thanks to optimized form and small wall thickness
- Recessed measuring fields: reduce risk of scratching by the cuvette holder
- Arrow marker points to transmission direction
- Path length: 10 mm
- Outer dimensions (W x H x D): 12.5 x 45 x 12.5 mm

Description	Material	Volume	Range	PK	Cat. No.
		ml	nm		
Macro	PS	2.5 - 4.5	340 - 900	100	7.697 100
Semi-micro	PS	1.5 - 3.0	340 - 900	100	7.697 101

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

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

LLG-CUVETTE RACK, PP

































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

- Numbered positions
- Autoclavable at 121 °C

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

SOLVENTS IN CANISTERS











Many CHEMSOLUTE[®] solvents are also offered in 5 l or 10 l canisters.

Description	GHS	Signal-word	Hazard statements	Packaging	PK	Cat. No.
Acetone pure, technical grade (min. 99.0 %)	 	Danger	H225 H319 H336 EUH066 P210 P240 P305+P351+P338 P403+P233 P501	Plastic canister	5 l	2659.5000
Acetone p. a., ACS, ISO, Reag. Ph. Eur., Reag. USP (min. 99.8 %)	 	Danger	H225 H319 H336 EUH066 P210 P240 P305+P351+P338 P403+P233 P501	Plastic canister	5 l	2680.5000
Acetone p. a., ACS, Ph. Eur., BP, USP (min. 99.8 %)	 	Danger	H225 H319 H336 EUH066 P210 P240 P305+P351+P338 P403+P233 P501	Plastic canister	5 l	2654.5010
Ethanol 70 % denatured with MEK, IPA and Bitrex [®] (min. 69.0 %)	 	Danger	H225 H319 P210 P240 P241 P260 P280 P303+P361+P353 P305+P351+P338 P501	Plastic canister	5 l	2202.5000
Ethanol 80 % denatured with MEK, IPA and Bitrex [®] (min. 79.0 %)	 	Danger	H225 H319 P210 P240 P241 P260 P280 P303+P361+P353 P305+P351+P338 P501	Plastic canister	5 l	2203.5000
Bioethanol 96 % denatured with MEK, IPA and Bitrex [®] (min. 96.0 %)	 	Danger	H225 H319 P210 P240 P241 P260 P280 P303+P361+P353 P305+P351+P338 P501	Plastic canister	5 l	2209.5000
Ethanol 96 % denatured with MEK, IPA and Bitrex [®] (min. 96.0 %)	 	Danger	H225 H319 P210 P240 P241 P260 P280 P303+P361+P353 P305+P351+P338 P501	Plastic canister	5 l	2206.5000
Bioethanol 99 % denatured with MEK, IPA and Bitrex [®] (min. 99.2 %)	 	Danger	H225 H319 P210 P240 P241 P260 P280 P303+P361+P353 P305+P351+P338 P501	Plastic canister	5 l	2211.5000
Ethanol 99 % denatured with MEK, IPA and Bitrex [®] (min. 99.8 %)	 	Danger	H225 H319 P210 P240 P241 P260 P280 P303+P361+P353 P305+P351+P338 P501	Plastic canister	5 l	2212.5000
				Plastic canister	10 l	2212.9010
Ethanol absolute anhydrous puriss., BP, Ph. Eur., USP (min. 99.5 %)	 	Danger	H225 H319 P210 P233 P241 P243 P280 P337+P313 P403+P235	Plastic canister	5 l	2273.5000
n-Hexane p. a., ACS, Ph. Eur. (min. 95.0 %)	   	Danger	H225 H304 H315 H336 H361 H373 H411 P210 P241 P280 P303+P361+P353 P304+P340 P403+P233 P501	Plastic canister	5 l	1975.5011
2-Propanol pure (min. 99.0 %)	 	Danger	H225 H319 H336 P210 P240 P280 P304+P340 P305+P351+P338 P501	Plastic canister	5 l	1157.5000
2-Propanol p. a., ACS, ISO, Reag. Ph. Eur. (min. 99.8 %)	 	Danger	H225 H319 H336 P210 P240 P280 P304+P340 P305+P351+P338 P501	Plastic canister	5 l	1136.5000
Xylene technical grade (min. 98.5 %)	 	Danger	H226 H312+H332 H315 P210 P260 P280 P302+P352 P304+P340 P312 P403+P235 P501	Plastic canister	5 l	371.5000

* plus tax on alcohol, if applicable

SOLVENTS FOR ORGANIC TRACE ANALYSIS








CHEMSOLUTE[®] solvents for trace analysis are particularly suitable for the extraction and analysis of organic traces. Suitable for gas chromatography due to high purity, absence of extraneous peaks and quality control by GC-ECD and GC-FID.

Description	GHS	Signal-word	Hazard statements	Packaging	PK	Cat. No.
Chloroform for trace analysis (min. 99.95 %, stabilised with ethanol)	 	Danger	H302 H315 H319 H331 H351 H361d H372 P201 P202 P260 P271 P280 P301+P330+P331 P303+P361+P353 P304+P340 P305+P351+P338 P308+P311 P403+P233 P501	Glass bottle	2.5 l	2427.2500
Isohexane for trace analysis (min. 95.0 %)	   	Danger	H225 H315 H336 H304 H411 P210 P241 P264 P273 P303+P361+P353 P304+P340 P403+P235 P501	Glass bottle	2.5 l	1817.2500
n-Pentane for trace analysis (min. 99.0 %)*	   	Danger	H225 H302 H304 H336 H411 P210 P241 P243 P261 P271 P273 P301+P310 P303+P361+P353 P304+P340 P312 P403+P233 P501	Glass bottle	2.5 l	1149.2500

* also suitable for pesticide analysis










SOLVENTS FOR PESTICIDE ANALYSIS

CHEMSOLUTE® solvents for pesticide analysis are particularly suitable for the extraction and analysis of pesticide residues down to the trace level. Suitable for gas chromatography due to high purity and absence of extraneous peaks, guarantee of a stable baseline and strict quality controls using GC-ECD and GC-NPD.

Description	GHS	Signal-word	Hazard statements	Packaging	PK	Cat. No.
Acetone for pesticide analysis (min. 99.8 %)		Danger	H225 H319 H336 EUH066 P210 P240 P305+P351+P338 P403+P233 P501	Glass bottle	2.5 l	2676.2500
Cyclohexane for pesticide analysis (min. 99.8 %)		Danger	H225 H304 H315 H336 H410 P210 P240 P273 P280 P301+P310 P302+P352 P331 P403+P233 P501	Glass bottle	2.5 l	2448.2500
Dichloromethane for pesticide analysis (min. 99.9 %, stabilised with amylene)		Warning	H351 P201 P202 P280 P308+P313 P405 P501	Glass bottle	2.5 l	2333.2500
Isooctane for pesticide analysis (min. 99.5 %)		Danger	H225 H304 H315 H336 H410 P210 P240 P273 P301+P310 P331 P303 +P361+P353 P304+P340 P403+P233 P501	Glass bottle	2.5 l	1802.2500
n-Heptane for pesticide analysis (min. 99.0 %)		Danger	H225 H304 H315 H336 H410 P210 P243 P261 P271 P273 P280 P331 P301+P310 P303+P361+P353 P304+P340 P312 P403+P233 P501	Glass bottle	2.5 l	1907.2500
Petroleum benzine for pesticide analysis (boiling range 40 - 65 °C)		Danger	H225 H315 H361f H373 H304 H411 EUH066 P210 P233 P243 P260 P273 P280 P301+P330+P331 P303+P361+P353 P305+P351+P338 P310 P391 P403+P235 P501	Glass bottle	2.5 l	1145.2500
Toluene for pesticide analysis (min. 99.8 %)		Danger	H225 H304 H315 H336 H361d H373 P201 P210 P241 P243 P260 P271 P281 P301+P310 P303+P361+P353 P304+P340 P308+P313 P331 P403+P233 P501	Glass bottle	2.5 l	739.2500

SOLVENTS FOR RESIDUE ANALYSIS

CHEMSOLUTE® solvents for residue analysis are particularly suitable for the extraction and analysis of pesticide residues as well as nitrogenous and chlorinated residues down to the trace level. Suitable for gas chromatography due to high purity and absence of extraneous peaks, guarantee of a stable baseline and strict quality controls using GC-ECD and GC-NPD.

Description	GHS	Signal-word	Hazard statements	Packaging	PK	Cat. No.
Acetone for residue analysis (min. 99.8 %)		Danger	H225 H319 H336 EUH066 P210 P240 P305+P351+P338 P403+P233 P501	Glass bottle	1 l	2661.1000
				Glass bottle	2.5 l	2661.2500
				Glass bottle	4 l	2661.4000
Cyclohexaen for residue analysis (min. 99.8 %)		Danger	H225 H304 H315 H336 H410 P210 P240 P273 P280 P301+P310 P302+P352 P331 P403+P233 P501	Glass bottle	2.5 l	2429.2500
Dichloromethane for residue analysis (min. 99.9 %, stabilised with ethanol)		Warning	H351 P201 P202 P280 P308+P313 P405 P501	Glass bottle	2.5 l	2311.2500
Ethyl acetate for residue analysis (min. 99.8 %)		Danger	H225 H319 H336 EUH066 P210 P241 P280 P303+P361+P353 P305+P351+P338 P405 P501	Glass bottle	1 l	2219.1000
				Glass bottle	2.5 l	2219.2500
Methanol for residue analysis (min. 99.90 %)		Danger	H225 H301 H311 H331 H370 P210 P280 P301+P310 P303+P361+P353 P304+P340 P405 P501	Glass bottle	1 l	1448.1000
				Glass bottle	2.5 l	1448.2500
Mixture Ethyl acetate/Cyclohexane 50 : 50 (% v/v) for residue analysis		Danger	H225 H304 H315 H319 H336 H410 EUH66 P210 P261 P273 P280 P301+P310+P331 P312	Glass bottle	2.5 l	697.2500
n-Hexane for residue analysis (min. 95.0 %)		Danger	H225 H304 H315 H336 H361 H373 H411 P210 P241 P280 P303+P361+P353 P304+P340 P403+P233 P501	Glass bottle	1 l	1973.1000
				Glass bottle	2.5 l	1973.2500
				Glass bottle	4 l	1973.4000
Petroleum benzine for residue analysis (boiling range 35 - 60 °C)		Danger	H225 H315 H361f H373 H304 H411 EUH066 P210 P233 P243 P260 P273 P280 P301+P330+P331 P303+P361+P353 P305+P351+P338 P310 P391 P403+P235 P501	Glass bottle	2.5 l	1152.2500
Toluene for residue analysis (min. 99.8 %)		Danger	H225 H304 H315 H336 H361d H373 P201 P210 P241 P243 P260 P271 P281 P331 P301+P310 P303+P361+P353 P304+P340 P308+P313 P403+P233 P501	Glass bottle	2.5 l	715.2500




CHEMICALS FROM CHEMSOLUTE® IN 5 L AND 10 L BAG-IN-BOX

Sturdy cardboard outside, chemical resistant bag inside: Volumetric solutions and buffer solutions from CHEMSOLUTE® are also available in practical and environmentally friendly bag-in-box packaging.

- Less weight and ergonomic handling
- Less plastic waste and less space required for disposal
- Consistent quality down to the last drop: the packaging protects against sunlight and prevents contact of the solution with the laboratory atmosphere








VOLUMETRIC SALT SOLUTIONS

- Traceable to NIST standard reference material
- Accuracy ±0.2 % or ±0.4 %*
- Reference temperature 20 °C

Description	GHS	Signal-word	Hazard statements	Packaging	PK	Cat. No.
EDTA disodium salt solution 0.1 mol/l (0.2 N)*				Bag-in-Box	5 l	2204.5000
Sodium thiosulfate solution 0.1 mol/l (0.1 N)				Bag-in-Box	5 l	1356.5000
					10 l	1356.9510
Silver nitrate solution 0.1 mol/l (0.1 N)		Warning	H315 H319 H410 P273 P280 P332+P313 P337+P313 P391 P501	Bag-in-Box	5 l	881.5000
					10 l	881.9011

VOLUMETRIC ACIDS AND BASES

- Traceable to NIST standard reference material
- Accuracy ±0.1 %, ±0.2 %* or ±0.6 %**
- Reference temperature 20 °C

Description	GHS	Signal-word	Hazard statements	Packaging	PK	Cat. No.
Sodium hydroxide solution 0.1 mol/l (0.1 N)*				Bag-in-Box	5 l	1331.5000
					10 l	1331.9510
Sodium hydroxide solution 0.5 mol/l (0.5 N)		Warning	H290 H314 P280 P301+P330+P331 P303+P361+P353 P305+P351+P338 P310 P501	Bag-in-Box	5 l	1335.5000
Sodium hydroxide solution 1.0 mol/l (1.0 N)		Danger	H290 H314 P234 P280 P301+P330+P331 P303+P361+P353 P305+P351+P338 P310 P390 P501	Bag-in-Box	5 l	1340.5000
				Bag-in-Box	10 l	1340.9510
Hydrochloric acid 0.1 mol/l (0.1 N)		Warning	H290 P390	Bag-in-Box	5 l	841.5000
					10 l	841.9510
Hydrochloric acid 0.5 mol/l (0.5 N)		Warning	H290 P390	Bag-in-Box	5 l	845.5000
Hydrochloric acid 1.0 mol/l (1.0 N)		Warning	H290 P390	Bag-in-Box	5 l	850.5000
					10 l	850.9510
Sulfuric acid 0.05 mol/l (0.1 N)**		Warning	H290 P234 P390	Bag-in-Box	5 l	815.5000
Sulfuric acid 0.5 mol/l (1.0 N)**		Danger	H290 P234 P390 P406	Bag-in-Box	5 l	855.5000
					10 l	855.9510

PH-BUFFER SOLUTIONS

CHEMSOLUTE® pH-buffer solutions are uncoloured and traceable to NIST standard reference material.

- Accuracy ±0.02
- Reference temperature 20 °C

Description	Packaging	PK	Cat. No.
Buffer solution pH 4.00	Bag-in-Box	5 l	1114.5000
Buffer solution pH 7.00	Bag-in-Box	5 l	1117.5000
Buffer solution pH 9.00	Bag-in-Box	5 l	1119.5000
Buffer solution pH 10.00	Bag-in-Box	5 l	1120.5000



NEW
BRAND
BIOSOLUTE®



PROVEN QUALITY – NEW FOR THE LIFE SCIENCE SECTOR!

In November last year we started to switch our products for microbiology, molecular biology, cell culture and histology under the CHEMSOLUTE® brand to our new own brand BIOSOLUTE®, which is specifically tailored for the life science sector.

The switch to BIOSOLUTE® means no additional expense for you as a customer. All products, item numbers and packaging sizes as well as the high quality will not change in any way.

Your advantages at a glance:

- Benefit from an even larger product selection in the future
- Have an improved orientation as to which articles from our portfolio are particularly well suited to your requirements
- Find all products unchanged in quality and reliability

**PRODUCTS FOR MOLECULAR BIOLOGY AND
READY-TO-USE PBS BUFFERS**

With the assortment of BIOSOLUTE® you get many products for molecular biology in the proven quality. In addition, ready-to-use PBS buffers - reliable and easy to use, simply dissolve in deionized water!

Description	PK	Cat. No.
Water for molecular biology, sterile, DNase-, RNase- and Protease-free	500 ml	7711.0500
Water for molecular biology, sterile, DNase-, RNase- and Protease-free	1 l	7711.1000
Tris for molecular biology (min. 99,9%)	500 g	8085.0500
Tris for molecular biology (min. 99,9%)	1 kg	8085.1000
Tween® 20 for molecular biology	500 g	8022.0500
Tween® 20 for molecular biology	1 kg	8022.1000
PBS 1x, pH 7.4, tablets for 500 ml	100	8418.0100
PBS 1x, pH 7.4, tablets for 1 l	100	8435.0100
PBS 10x, pH 7.4, powder for 5 l, 5 pouches for each 1 l	5	8461.0005
PBS 10x, pH 7.4, powder for 25 l, 5 pouches for each 5 l	5	8462.0005

READY-TO-USE PLATES FOR MICROBIOLOGY

BIOSOLUTE® ready-to-use microbiological culture media in 90 mm plates are available in a wide selection for a variety of applications. These ready-to-use agar plates are packed in cellophane bags of 10 ready-to-use plates each.

Description	PK	Cat. No.
Baird Parker Agar	20	9746.0020
Tryptic Soy Agar (TSA)	20	9762.0020
Tryptic Soy Agar (TSA) 5% sheep blood	20	9750.0020
Cetrimid Agar	20	9248.0020
Chromogenic Coliform Agar (CCA)	20	9950.0020
Columbia Agar with sheep blood	20	9772.0020
MacConkey Agar No. 3	20	9452.0020
Mannitol Salt Agar (Chapman)	20	9156.0020
MRS Agar	20	9384.0020
Nutrient Agar DEV	20	9394.0020
Nutrient Agar ISO	20	9390.0020
Plate Count Agar (PCA)	20	9585.0020
Pseudomonas CFC Agar ISO	20	9145.0020
R2A Agar	20	9160.0020
Sabouraud Dextrose Agar	20	9780.0020
Sabouraud Dextrose Agar Chloramphenicol	20	9164.0020
VRBD Agar (Violet Red Bile Dextrose Agar)	20	9168.0020
Tryptone Yeast Extract Agar (Water-PCA)	20	9684.0020
XLD Agar (Xylose Lysin Desoxycholat Agar)	20	9171.0020
YGC Agar (Yeast Extract Glucose Chloramphenicol Agar)	20	9844.0020



CONTACT PLATES FOR MICROBIOLOGICAL HYGIENE MONITORING

BIOSOLUTE® ready-to-use contact plates with a wide range of applications for detecting microbial colonization. With a size of 55 mm, they come in a practical blister of 6 plates each and are thus individually packaged.

Description	Packaging	PK	Cat. No.
Rose Bengal Chloramphenicol Agar (RBC Agar)	double wrapping, irradiated	30	9813.0030
Tryptic Soy Agar (TSA) with TL as disinhibitors	double wrapping, irradiated	30	9691.0030
Tryptic Soy Agar (TSA) with TLHTh as disinhibitors	double wrapping, irradiated	30	9321.0030
Cetrimid Agar	double wrapping, irradiated	30	9246.0030
MacConkey-Agar No. 3	double wrapping	30	9456.0030
Malt Extract Agar with Chloramphenicol	double wrapping, irradiated	30	8763.0030
Malt Extract Agar	double wrapping, irradiated	30	9982.0030
Plate Count Agar (PCA)	double wrapping, irradiated	30	9577.0030
Sabouraud Dextrose Chloramphenicol Agar	double wrapping, irradiated	30	9225.0030
VRBD Agar (Violet Red Bile Dextrose Agar)	double wrapping	30	9416.0030



EVERYTHING FOR DIAGNOSTICS IN HISTOLOGY AND MICROSCOPY

NEW - HISTOFIX®-SAFE

New is Histofix®-Safe, a closed sample container specially developed and patented by Panreac AppliChem for the fixation and transfer of small histological samples. Histofix®-Safe prevents the user from coming into contact with formaldehyde solution.



Description	GHS	Signal-word	Hazard statements	PK	Cat. No.
Histofix® Safe Preservative, ready to use		Danger	H350 H317 H341 H302 P201 P202 P261 P272 P280 P281 P302+P352 P308+P313 P321 P333+P313 P363 P405 P501	50x20 ml	258462.0955
				50x30 ml	258462.0962
				50x40 ml	258462.0961

YOUR SELECTION FOR PREPARATION, FIXATION AND STAINING

Panreac AppliChem offers you a wide range of reagents for histology and microscopy: preparation, fixation and staining - all specifically for clinical diagnostics.
















Description	GHS	Signal-word	Hazard statements	PK	Cat. No.
Formaldehyde 3,7 – 4,0% w/v buffered to pH=7, stabilized with methanol		Danger	H302 H317 H341 H350 P201 P202 P261 P270 P272 P280 P281 P301+P312 P302+P352 P308+P313 P321 P330 P333+P313 P363 P405 P501	1 l	252931.1211
				5 l	252931.1214
Histofix® Preservative, ready to use		Danger	H317 H341 H350 P201 P202 P261 P272 P280 P281 P302+P352 P308+P313 P321 P333+P313 P363 P405 P501	45x10 ml	256462.0905
				44x20 ml	256462.0955
				45x30 ml	256462.0962
Xylene, mixture of isomers		Attention	H226 H312+H332 H315 H319 H335 H373 H304 P280 P321 P331 P303+P361+P353 P305+P351+P338 P362+P364 P405 P501	1 l	251769.2711
				5 l	251769.2714
Citrosol (Substitute of Xylene)		Attention	H226 H315 H317 H410 P210 P233 P240 P241 P242 P243 P261 P264 P272 P273 P280 P302+P352 P303+P361+P353 P321 P332+P313 P333+P313 P362 P363 P370+P378 P391 P403+P235 P501	2.5 l	253139.1612
Isoparaffin H (Substitute of Xylene)		Danger	EUH066 H304 H413 P273 P301+P310 P331 P501	1 l	255069.2711
				5 l	255069.2714
Eosin Yellowish alcoholic solution 1%		Danger	H225 P210 P233 P240 P241 P242 P243 P280 P303+P361+P353 P370+P378 P403+P235 P501	500 ml	256879.1210
Eosin for fast staining (Panoptic No. 2)				500 ml	253999.1210
Harris Hematoxylin solution		Attention	H302+H312+H332 H373 H412 P260 P280 P321 P330 P362+P364 P501	500 ml	253949.1610
				1 l	253949.1211
Lugol's Liquor with 0,4% of Iodine			H412 P273 P501	250 ml	251774.1609
Lugol's Liquor with 5% of Iodine (concentrated)		Danger	H372 H412 P260 P273 P314	100 ml	257041.1608
				500 ml	257041.1610
Mayer's Hematoxylin solution		Attention	H302 P264 P270 P301+P312 P330 P501	500 ml	254766.1610
				1 l	254766.1211
Methylene Blue (C.I. 52015)		Attention	H302 P264 P270 P301+P312 P330 P501	100 g	251170.1608
Immersion oil				100 ml	251002.1208

HYDRANAL™
















From routine analysis, to complex samples, to innovations for battery research analysis (Hydranal™ FA), smart lab support (Hydranal™ SC and Hydranal™ OM) or hazardous material reduction (Hydranal™ FI), Hydranal™ is the gold standard for Karl Fischer titration. Rely on over 40 years of experience, quality and innovation for your safe daily laboratory routine.

A selection of available products for Karl Fischer titration can be found here at a special price. Are you missing something? Please contact us!













































VOLUMETRY: ONE COMPONENT

Description	GHS	Signal-word	Hazard statements	Packaging	PK	Cat. No.
HYDRANAL™ - Composite 2		Danger	H351+H360D+H373 P260+P280+P284	Glass Bottle	500 ml	34806-500ML
				Glass Bottle	1 l	34806-1L
				Glass Bottle	2.5 l	34806-2.5L
HYDRANAL™ - Composite 5		Danger	H351+H360D+H373 P284+P280+P260	Glass Bottle	500 ml	34805-500ML
				Glass Bottle	1 l	34805-1L
HYDRANAL™ - Composite 5 K		Danger	H351+H360D+H373 P260+P280+P284	Glass Bottle	500 ml	34816-500ML
				Glass Bottle	1 l	34816-1L
HYDRANAL™ - LipoSolver MH	  	Danger	H225+H301+H311+H331+H319+H370 P260+P280+P284	Glass Bottle	1 l	37856-1L
HYDRANAL™ - Medium K	   	Danger	H372+H360Fd+H351+H226+H302+H315+H318+H331+H336 P280+P260+P284	Glass Bottle	1 l	34698-1L
HYDRANAL™ - Methanol Rapid	  	Danger	H225+H301+H311+H331+H360D+H370 P260+P280+P284	Glass Bottle	1 l	37817-1L
				Glass Bottle	2.5 l	37817-2.5L

VOLUMETRY: TWO COMPONENT

Description	GHS	Signal-word	Hazard statements	Packaging	PK	Cat. No.
HYDRANAL™ - NEXTGEN Solvent E-FI	 	Danger	H225+H315+H318 P243+P264+P280+P242+P241+P240+P233+P210	Glass Bottle	1 l	34431-1L
HYDRANAL™ - Solvent	   	Danger	H370+H360D+H225+H301+H311+H331+H314 P284+P280+P260	Glass Bottle	1 l	34800-1L
HYDRANAL™ - Solvent E	  	Danger	H225+H318+H360D+H373 P260+P280+P284	Glass Bottle	1 l	34730-1L
				Glass Bottle	2.5 l	34730-2.5L
HYDRANAL™ - Solvent Oil	  	Danger	H225+H301+H311+H331+H315+H319+H360D+H370 P260+P280+P284	Glass Bottle	1 l	34749-1L
HYDRANAL™ - Titrant 5	  	Danger	H373+H370+H301+H311+H331+H225 P260+P280+P284	Glass Bottle	1 l	34801-1L





















COULOMETRY: REAGENT

Description	GHS	Signal-word	Hazard statements	Packaging	PK	Cat. No.
HYDRANAL™ - Coulomat AD	   	Danger	H373+H370+H360D+H225+H301+H311+H331+H318 P284+P280+P260	Glass Bottle	500 ml	34810-500ML
HYDRANAL™ - Coulomat AG	   	Danger	H373+H370+H360D+H318+H311+H331+H225 P284+P260+P280	Glass Bottle	500 ml	34836-500ML
				Glass Bottle	1 l	34836-1L
HYDRANAL™ - Coulomat AG-H	    	Danger	H411+H370+H360D+H335+H314+H301+H311+H331+H225 P260+P280+P284	Glass Bottle	500 ml	34843-500ML
HYDRANAL™ - Coulomat AG-Oven	   	Danger	H318+H301+H311+H331+H225+H360D+H370+H373 P284+P280+P260	Glass Bottle	500 ml	34739-500ML
HYDRANAL™ - Coulomat AK	   	Danger	H372+H360FD+H351+H331+H318+H315+H302+H226 P284+P260+P280	Glass Bottle	500 ml	34820-500ML
HYDRANAL™ - Coulomat CG	  	Danger	H370+H319+H315+H311+H331+H225 P260+P280+P284	Ampoule	50 ml	34840-50ML
HYDRANAL™ - Coulomat CG-K	 	Danger	H312+H319+H360Df P260+P280+P284	Ampoule	50 ml	34821-50ML
HYDRANAL™ - Coulomat E	   	Danger	H225+H302+H332+H318+H360D+H371+H373 P284+P260+P280	Glass Bottle	500 ml	34726-500ML
HYDRANAL™ - Coulomat Oil	  	Danger	H370+H360D+H351+H319+H315+H304+H301+H311+H331+H225+H372+H412 P284+P280+P260	Glass Bottle	500 ml	34868-500ML
HYDRANAL™ - NEXTGEN Coulomat A-FA	   	Danger	H370+H314+H302+H332+H290+H225 P280+P271+P270+P264+P260+P243+P242+P241+P240+P234+P233+P210	Glass Bottle	500 ml	34471-500ML
HYDRANAL™ - NEXTGEN Coulomat AG-FI	  	Danger	H225+H315+H318+H370 P280+P270+P264+P260+P243+P242+P241+P240+P233+P210	Glass Bottle	500 ml	34433-500ML
HYDRANAL™ - NEXTGEN Coulomat C-FA	   	Danger	H370+H314+H302+H332+H290+H225 P280+P271+P270+P264+P260+P243+P242+P241+P240+P234+P233+P210	Ampoule	50 ml	34470-50ML

CHEMSOLUTE® SOLVENTS FOR (UHP)LC-MS

CHEMSOLUTE® solvents for LC-MS and UHPLC-MS are characterised by very high purity and the removal of trace elements, organic substances and (metal) ions. Their high ionisation efficiency combined with low ion background makes them particularly suitable as eluents for coupling HPLC with mass spectrometry.




- Filtered through 0.2 µm (LC-MS) or filtered through 0.1 µm (UHPLC-MS)
 - Suitability for detection by UV and fluorescence and mass spectroscopy verified
- The solvents for UHPLC-MS are even purer than those for LC-MS (e.g. lower evaporation residue).

Description	GHS	Signal-word	Hazard statements	Packaging	PK	Cat. No.
Acetonitrile for LC-MS (min. 99.95 %)	 	Danger	H225 H302 H312 H319 H332 P210 P241 P261 P280 P303+P361+P353 P305+P351+P338 P501	Glass bottle	1 l	2697.1000
				Glass bottle	2.5 l	2697.2500
Acetonitrile for UHPLC-MS (min. 99.97 %)	 	Danger	H225 H302 H312 H319 H332 P210 P241 P261 P280 P303+P361+P353 P305+P351+P338 P501	Glass bottle	1 l	2690.1000
				Glass bottle	2.5 l	2690.2500
Acetonitrile with 0.1 % formic acid for LC-MS (min. 99.5 %)	 	Danger	H225 H302+H312+H332 H319 H315 P210 P241 P264 P303+P361+P353 P304+P340 P305+P351+P338 P403+P235 P501	Glass bottle	2.5 l	2645.2500
Ethylacetat for LC-MS (min. 99.95 %)	 	Danger	H225 H319 H336 EUH066 P210 P241 P280 P303+P361+P353 P305+P351+P338 P405 P501	Glass bottle	1 l	2278.1000
Ethylacetat for UHPLC-MS (min. 99.95 %)	 	Danger	H225 H319 H336 EUH066 P210 P241 P280 P303+P361+P353 P305+P351+P338 P405 P501	Glass bottle	2.5 l	2279.2500
Methanol for LC-MS (min. 99.95 %)	  	Danger	H225 H301 H311 H331 H370 P210 P280 P301+P310 P303+P361+P353 P304+P340 P405 P501	Glass bottle	1 l	1428.1000
				Glass bottle	2.5 l	1428.2500
Methanol for UHPLC-MS (min. 99.97 %)	  	Danger	H225 H301 H311 H331 H370 P210 P280 P301+P310 P303+P361+P353 P304+P340 P405 P501	Glass bottle	1 l	1485.1000
				Glass bottle	2.5 l	1485.2500
2-Propanol for LC-MS (min. 99.95 %)	 	Danger	H225 H319 H336 P210 P240 P280 P304+P340 P305+P351+P338 P501	Glass bottle	1 l	1178.1000
				Glass bottle	2.5 l	1178.2500
2-Propanol for UHPLC-MS (min. 99.95 %)	 	Danger	H225 H319 H336 P210 P240 P280 P305+P351+P338 P304+P340 P501	Glass bottle	1 l	1179.1000
				Glass bottle	2.5 l	1179.2500
Water for LC-MS				Glass bottle	1 l	455.1000
				Glass bottle	2.5 l	455.2500
Water for UHPLC-MS				Glass bottle	1 l	470.1000
				Glass bottle	2.5 l	470.2500
Water with 0.1 % v/v formic acid for LC-MS				Glass bottle	1 l	456.1000
				Glass bottle	2.5 l	456.2500

SOLVENTS FOR GC HEADSPACE ANALYSIS

The GC headspace technique is particularly suitable for the determination of organic volatile impurities (OVI) such as solvent residues in pharmaceuticals. The solvents used to dissolve or extract the samples must be free of impurities that can interfere with the GC trace.

CHEMSOLUTE® solvents **headspace grade** are specifically developed and tested for this application.

Description	GHS	Signal-word	Hazard statements	Packaging	PK	Cat. No.
N,N-Dimethylformamide Headspace grade (min. 99.98 %)	  	Danger	H226 H312+H332 H319 H360D P201 P210 P261 P280 P308+P313 P501	Glass bottle	1 l	2350.1000
Dimethyl sulfoxide Headspace grade (min. 99.99 %)				Glass bottle	1 l	2365.1000

FOR CHROMATOGRAPHY

The high-quality products from CHEMSOLUTE® are ideally suited for column chromatography.

Description	Packaging	PK	Cat. No.
Silica gel 60 (0.063 – 0.2 mm)	Plastic bottle	1 kg	1605.1000
	Plastic bucket	2.5 kg	1605.2500
Magnesiumsilikat (Florisil®), 60-100 mesh	Plastic bottle	0.5 kg	2107.0500

SIL G UNMODIFIED STANDARD SILICA LAYERS FOR TLC, GLASS PLATES/ POLYGRAM®

Support materials for TLC ready-to-use layers

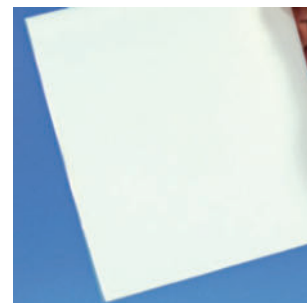
Glass plates: glass, ~ 1.3 mm thick, high requirements for weight, packaging and storage, ideal torsional strength, high temperature stability, susceptible to breakage, can not be cut with scissors, high resistance against solvents, mineral acids and conc. ammonia, suitability for aqueous detection reagents 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 (UV₂₅₄)



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

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.

Description	Connections	PK	Cat. No.
SafetyCaps I (V 2.0)	1 capillary (3.2 mm o.d.)	1	4.669 370
SafetyCaps II (V 2.0)	2 capillaries (3.2 mm o.d.)	1	4.669 371
SafetyCaps III (V 2.0)	3 capillaries (3.2 mm o.d.)	1	4.669 372

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

Type	Flow rate amount ml/min	PK	Cat. No.
Refill pack of 8	400	8	6.318 227
Refill pack of 10	400	10	4.669 376
Refill pack of 50	400	50	4.669 377

SCREW NECK VIALS AND MICRO-VIALS ND8, SMALL OPENING



Screw neck vials and micro-vials ND8 are available in clear and amber first hydrolytic class glass. They have a 8-425 thread and are used as standard in GC and HPLC applications. A large selection of micro-inserts with a 5 mm diameter is available for these vials. The micro-vials often require an adapter so that they can be used in an autosampler.

These vials are especially used with autosamplers made by Beckman, Shimadzu, Spark, Varian and VWR/Hitachi.

Typ	Description	Capacity ml	Size mm	PK	Cat. No.
(1)	Clear glass, flat bottom*	1.5	32 x 11.6	100	6.401 175
(2)	Amber glass, flat bottom*	1.5	32 x 11.6	100	7.615 163
(3)	Clear glass, flat bottom, with label	1.5	32 x 11.6	100	7.613 087
(4)	Amber glass, flat bottom, with label	1.5	32 x 11.6	100	7.613 388

* Especially suitable for VWR (Merck®)/Hitachi instruments

SCREW SEALS ND8



WITH SILICONE/PTFE SEPTA

These septa are temperature-resistant from -60 to 200 °C and have better purity than septa made of natural rubber, butyl or red rubber. However, they have less effective resealability properties and are therefore more suitable for single-injection applications. Septa with a double-sided PTFE coating show a very low particle formation during penetration.

Typ	Description	Hardness	Thickness mm	PK	Cat. No.
(5)	Silicone white / PTFE red, UltraClean	45° shore A	1.3	100	7.604 778
(6)	Silicone white / PTFE red, slitted	45° shore A	1.3	100	7.614 038
(7)	PTFE red / silicone white / PTFE red	45° shore A	1.0	100	7.630 523

WITH NATURAL RUBBER/TEF SEPTA

These septa are temperature-resistant from -40 to 120 °C and ideal for multiple injections thanks to their excellent resealability properties.

Typ	Description	Hardness	Thickness mm	PK	Cat. No.
(8)	Natural rubber red-orange / TEF transparent*	60° shore A	1.3	100	7.612 928

* Especially suitable for VWR (Merck®)/Hitachi instruments

WITH BUTYL/PTFE SEPTA

These septa are temperature-resistant from -40 to 120 °C and have excellent chemical properties with regard to cleanliness.

Typ	Description	Hardness	Thickness mm	PK	Cat. No.
(9)	Butyl red / PTFE grey	55° shore A	1.3	100	7.616 773

KITS ND8



The LABSOLUTE® kits ND8 contain shrink-wrapped screw vials ND8 with small opening made of clear or amber first hydrolytic class glass and corresponding screw caps made of PP. In some cases, caps are already pre-screwed on the vials.

- Many kits are especially adjusted for use with an autosampler of one defined manufacturer
- Kits with pre-screwed seals reduce the risk of sample contamination
- Kits with pre-assembled micro inserts are available on request

Typ	Description	Capacity ml	For Sampler	PK	Cat. No.
(10)	Clear glass, black cap, 5.5 mm hole, natural rubber red-orange / TEF transparent, 60° shore A, 1.3 mm	1.5	Merck®/Hitachi	1	7.618 022
	Clear glass, black cap, 5.5 mm hole, silicone white / PTFE red, 45° shore A, 1.3 mm, UltraClean	1.5	Varian	100	7.629 515
	Amber glass, label and filling lines, black cap, 5.5 mm hole, silicone white / PTFE red, 45° shore A, 1.3 mm, UltraClean	1.5	Varian	100	9.003 558

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.

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

DISPOSABLE SYRINGES, LUER SLIP, NON-STERILE, PP

LABSOLUTE®



The two-part, non-sterile LABSOLUTE® disposable syringes, with Luer slip connection complying with DIN EN 20594-1, are fully manufactured from robust, chemical resistant PP. They are free of latex, plasticizers and PVC. There are no rubber plunger seals or silicone lubricants that can cause contamination of the samples.

Capacity ml	PK	Cat. No.
1	100	7.657 545
2	100	7.644 125
5	100	7.644 126
10	100	7.644 127
20	100	7.644 128

SEA SAND P. A.

CHEMSOLUTE®

CHEMSOLUTE® sea sand is suitable for various applications, including chromatography.

- Acid washed and calcined

Description	Quantity kg	PK	Cat. No.
Sea sand purified by acid and calcined p. a.	1	1	804.1000
Sea sand purified by acid and calcined p. a.	25	1	804.9025

SYRINGE FILTERS 25 MM

LABSOLUTE® syringe filters with a filter membrane diameter of 25 mm are ideal for the preparation of samples with a volume from 1.5 ml to 100 ml. The effective filtration area is 4.6 cm². This, in combination with the stable housing pressure resistant to 5 bar made from polypropylene (transparent) or acrylic (pore size 0.22 µm blue or pore size 0.45 µm yellow), ensures rapid filtration. The non-sterile filters are packed in quantities of 500 in polypropylene pouches, while sterile filters are packaged individually in blisters in quantities of 50 per box.

Properties:

- Housing diameter 33 mm
- Membrane diameter 25 mm (surface 4.6 cm²)
- Low content of extractable substances
- Low dead volume

LABSOLUTE®



Filter material	Housing	Pore size µm	Sterile	PK	Cat. No.
Cellulose acetate (CA)	Acrylic	0.22	Non sterile	500	7.699 820
Cellulose acetate (CA)	Acrylic	0.45	Non sterile	500	7.699 821
Cellulose acetate (CA)	Acrylic	0.22	Sterile	50	7.699 822
Cellulose acetate (CA)	Acrylic	0.45	Sterile	50	7.699 823
Nylon (NY)	PP	0.20	Non sterile	500	7.699 814
Nylon (NY)	PP	0.45	Non sterile	500	7.699 815
Polyether sulfone (PES)	PP	0.22	Non sterile	500	7.699 818
Polyether sulfone (PES)	PP	0.45	Non sterile	500	7.699 819
Polyether sulfone (PES)	PP	0.22	Sterile	50	7.699 824
Polyvinylidene difluoride (PVDF)	PP	0.22	Non sterile	500	7.699 816
Polyvinylidene difluoride (PVDF)	PP	0.45	Non sterile	500	7.699 817
Polytetrafluoroethylene (PTFE)	PP	0.20	Non sterile	500	7.699 810
Polytetrafluoroethylene (PTFE)	PP	0.45	Non sterile	500	7.699 811
Regenerated cellulose (RC)	PP	0.20	Non sterile	500	7.699 812
Regenerated cellulose (RC)	PP	0.45	Non sterile	500	7.699 813

SAMPLE CONTAINERS, PP



The LABSOLUTE® containers are ideal for storing and transporting paste-like, powdery and liquid samples.

- Highly resistant to many chemicals
- Including screw lids
- Can be used in direct contact with food
- Autoclavable at 121 °C

Capacity ml	Ø mm	Height mm	PK	Cat. No.
30	58	19	10	7.696 270
75	58	47	10	7.696 271
310	81	81	10	7.696 272
600	119	67	10	7.696 273
1250	119	130	5	7.696 274
Height including lid				

DOSING BOTTLE AND SPRAY HEAD



NEU



The CHEMSOLUTE® dosing bottle made of PP with a volume of 1 l and Ø 25 mm is an ideal match for the spray head. This features a stable pump trigger and an adjustable atomiser nozzle, which can be regulated from fine atomising to liquid jet by simple turning. Suitable for spraying cleaning agents or disinfectants even in hard-to-reach places as well as for applications in thin-layer chromatography.

Description	PK	Cat. No.
Dosing bottle 1 l	1	10000.000
Spray cap for 1 l bottle	1	10001.000

CHEMSOLUTE® MANUAL DOSING PUMP



The CHEMSOLUTE® manual dosing pump makes dispensing the required amount of liquid or detergent quick and easy.

- for 5 and 10 l canisters
- suitable for thread RD 45 mm
- per stroke withdrawal of 10 ml

Description	PK	Cat. No.
Dosing pump	1	10002.000

LLG-BUCKETS, PP



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

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

ADHESIVE RUBBER MAT



Universally applicable

Description	PK	Cat. No.
Adhesive rubber mat, blue, 150 x 150 x 3 mm	2	6.263 598

CARBOYS WITH STOPCOCK, LDPE



Carboys are ideal for mixing, transporting and storing liquids. The stable LABSOLUTE® balloon flasks are made from LDPE. The lids and the stopcock are made from PP. The carboys are extremely secure and have useful handles on both sides. Liquids can be easily removed by the stopcock.

Volume litres	Ø Top mm	Ø Body mm	Height mm	PK	Cat. No.
10	65	249	390	1	7.696 193
20	65	285	535	1	7.696 194
50	65	376	682	1	7.696 195

DISPOSABLE GLOVES, NITRILE SENSITIVE, POWDER-FREE



The powder-free, lavender blue LABSOLUTE® disposable gloves Sensitive made of nitrile are flat with a rolled cuff and offer excellent elasticity and wearing comfort. A special after-treatment makes these LABSOLUTE® disposable gloves skin friendly and easy to put on. The gloves have textured finger tips.

The LABSOLUTE® nitrile gloves with an AQL value of 1.5 comply with the following standards and directives

- EN 420, EN ISO 374-1, -2, -4, -5 and EN 16523-1
- (EU) 2016/425 (PPE in accordance with CE category III for complex risks)
- 1935/2004 (can be used in direct contact with food)
- ASTM 1671 / ISO 16604 (viral penetration)

Further properties

- Approved for the use within Hazard Analysis and Critical Control Points (HACCP) concepts
- Resistance against ethidium bromide (1 %) for more than 480 min (level 6)
- Delivered in handy dispenser boxes of 200 (XS, S, M, L) or 180 pieces (XL)
- Free from phthalates, softeners and allergenic latex proteins
- Storage life: 3 years
- Length: approx. 240 mm
- Thickness (double): finger min. 0.14 mm, palm min. 0.12 mm, cuff min. 0.10 mm
- Can be worn on the left or right hand

Size	PK	Cat. No.
XS	200	7.696 904
S	200	7.696 900
M	200	7.696 901
L	200	7.696 902
XL	180	7.696 903

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 * Minimum purchase of 12 PK**

Size	PK	Cat. No.
S (7)	1	9.005 206
M (8)	1	9.005 207
L (9)	1	9.005 208
XL (10)	1	9.005 209

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!



Size	PK	Cat. No.
L	5	6.266 641
XL	5	6.266 642
XXL	5	6.266 643

SKIN CARE CREAM, SKIN CARE 1



The LABSOLUTE® Skin Care 1 is a high-quality, easily absorbable, gently moisturising skincare cream containing natural oils and beeswax. The emulsion is silicone-free and is therefore also suitable for use within Hazard Analysis and Critical Control Points (HACCP) concepts. The product encourages skin regeneration and can also be used on the face.

For best effects, use regularly after washing your hands, on dry skin, or also while working in the laboratory or office. The cream is suitable for all skin types.

Description	Capacity ml	PK	Cat. No.
Skin Care 1, unperfumed	100	1	7.695 201

SKIN PROTECTION CREAM LINDESA® K PROFESSIONAL WITH BEESWAX AND CHAMOMILE



Capacity	PK	Cat. No.
ml 100	10	6.317 296

PERSONAL PROTECTION

SAFETY SPECTACLES COMPLUS



Reliable protection with superb versatility: The LABSOLUTE® safety spectacles complus are well suited for perfect, lightning-fast adaptation to different or frequently changing users.

Excellent user-friendliness and flexibility

- Simple adaptation thanks to the adjustable arm length and angle
- Low weight
- Excellent wearing comfort thanks to 2-component technology and soft rests on the nose, ears and forehead

Description	PK	Cat. No.
Safety spectacles complus	1	7.696 001

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.
LLG-Dispenserbox	216 x 216 x 200	1	6.286 593

VISITOR COATS, PP



The LABSOLUTE® disposable coats made of white, breathable PP fleece are easy and comfortable to wear and are ideally suited for visitors.

- Shirt collar
- Without pockets
- With snaps
- Individually packed in a polybag

Size	PK	Cat. No.
Universal	50	7.695 310

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

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

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.

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

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.

Number of steps	Height*	PK	Cat. No.
2	46	1	4.668 331
3	69	1	7.623 704

* Height of first step (cm)

LLG-LAB STANDING REST

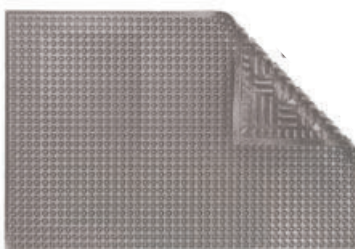


The LLG-Lab Standing Rest is the practical solution for laboratory workplaces where people have to sit as well as to stand. To cope with this, it has a particularly wide range of heights that can be adjusted steplessly. Its ergonomic backrest and non-slip wave seat surface ensure that you feel completely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

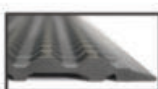
Description	Material	Seat height adjustment	PK	Cat. No.
		mm		
Glides	PU Foam	510-780	1	6.288 956
Glides, Foot Ring	PU Foam	510-780	1	6.288 957

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



Description	Dimensions	Height	PK	Cat. No.
	mm	mm		
Hygiene grey	600 x 900	11	1	4.665 404
Hygiene grey	900 x 1200	11	1	4.665 406

CLEANROOM

DISPOSABLE GLOVES MICROFLEX® 93-360, NITRILE

EN ISO 374-1

Type A



JKLOPST

EN ISO 374-5



VIRUS

EN 421



Ansell



- For Cleanroom
- Class ISO 5



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: 0.65

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

CLEANROOM WIPES CLINO® WAVE CR, MICROFIBRE



PFENNIG
REINIGUNGSTECHNIK

Reusable microfiber 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

Dimensions	Colour	Weight	Cleanroom Class	PK	Cat. No.
mm		g			
350 x 350	white	45	ISO 7 - 8	50	6.325 064

OVERGOOGLES UVEX SUPER F OTG CR 9169



uvex



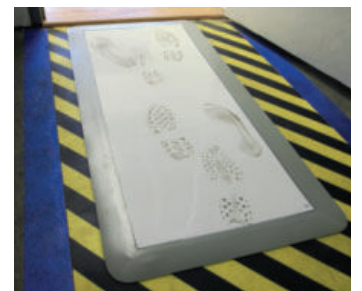
- Professional protection of products and humans
- First autoclavable protective overgoggles with anti-fog effect
- Sterile eye protection in every situation
- Autoclavable at least 10 times, 121 °C, 20 minutes
- Innovative design for maximum functionality and wearer comfort
- Overgoggles with unrestricted 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.

Lens	Coating	PK	Cat. No.
clear, UV 400, 2C-1,2	uvex supravision clean	1	6.268 419

ADHESIVE MATS STICKY MAT

ERGOMAT



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.
Frame for Cleanroom mats Sticky Mat	grey	1	6.272 245
1 mat of 30 sheets	white	10	6.272 241
1 mat of 30 sheets	blue	10	6.272 242
Set of 10 mats of 30 sheets + 1 frame	white	1	6.272 243
Set of 10 mats of 30 sheets + 1 frame	blue	1	6.272 244

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

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

MAGNETIC STIRRING BARS, CYLINDRICAL, PTFE



The cylindrical LABSOLUTE® magnetic stirring bars have a smooth surface. The PTFE coating makes them particularly resistant to chemicals and temperatures.

Length mm	Ø mm	PK	Cat. No.
10	6	10	7.695 100
15	6	10	7.695 101
20	6	10	7.695 102
25	6	10	7.695 103
30	6	10	7.695 104
35	6	10	7.695 105
40	8	10	7.695 106



3 YEARS
WARRANTY

NEW

BEAKERS, HIGH FORM, BOROSILICATE GLASS 3.3



DIN 12331. ISO 3819.
Borosilicate glass 3.3.
With volume scale and spout.

Capacity ml	Ø mm	Height mm	PK	Cat. No.
25	30	55	10	7.690 014
50	38	70	10	7.690 015
100	48	80	10	7.690 016
150	54	95	10	7.690 017
250	60	120	10	7.690 018
400	70	130	10	7.690 019
600	80	150	10	7.690 020
800	90	175	10	7.690 021
1000	95	180	10	7.690 022

External beaker diameter, without spout

SAMPLING

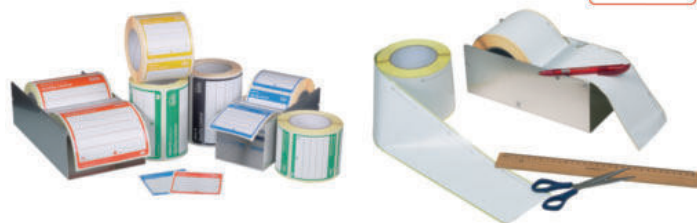
SAMPLE BAGS STERIBAG PREMIUM, TAMPER-PROOF



- Sterilised by gamma rays (10^{-6})
- With integrated tamper-proof closure for manipulation evidence
- Unique identification via tracking number
- Food-safe

Nominal capacity	Width	Length	PK	Cat. No.
ml	mm	mm		
300	145	200	100	9.404 126

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.

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

* close-it food & pharma Maxi

JARS WITH SCREW CAP, PP



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

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

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: 25 mm.

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

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

pH CALIBRATION KIT (20 °C)



The pH calibration kit from CHEMSOLUTE® contains six ready-to-use buffer solutions with colour coding and is characterized by its easy handling.

- Content: 2x pH 4.01 (red), 2x pH 7.01 (yellow), 2x pH 10.01 (blue)
- Accuracy ± 0.01 pH units, reference temperature 20 °C
- Traceable to the National Institute of Standards and Technology (NIST)
- In PP tubes (30 ml)

Description	PK	Cat. No.
pH calibration kit	1	11111.0001
Refill pack 4.01 - 7.01 - 10.01	6	11100.0001
Refill pack 4.01*	1	11103.0001
Refill pack 7.01*	1	11101.0001
Refill pack 10.01*	1	11102.0001

* Minimum purchase of 10 PK

pH BUFFER SOLUTIONS IN SEALED-EDGE POUCH WITH COLOUR CODING (25 °C)



- Accuracy ± 0.02 pH units, reference temperature 25 °C
- Traceable to the National Institute of Standards and Technology (NIST)
- In 30 ml sealed-edge pouch with coloured tear-off edge
- The dyed buffer solutions allow easy identification

Description	Colour	PK	Cat. No.
pH 4.00	Red	30	11400.0030
pH 7.00	Green	30	11700.0030
pH 10.01	Blue	30	11001.0030
pH 4.00 - 7.00 - 10.01*		30	11005.0001

* 10 pouches per pH value

pH BUFFER SOLUTIONS WITH COLOUR CODING (25 °C)



- Accuracy ± 0.01 pH units, reference temperature 25 °C
- Traceable to the National Institute of Standards and Technology (NIST)
- In PP bottles
- The dyed buffer solutions allow easy identification

Description	Colour	Capacity ml	PK	Cat. No.
pH 4.00	Red	1000	1	1103.1000
pH 7.00	Yellow	1000	1	1135.1000
pH 10.00	Blue	1000	1	1143.1000

pH AND REDOX METER pH 3110 PROFILE



Make testing of pH and redox potential simple. Easy operation virtually eliminates errors. All function keys of the 3110 can be operated even when wearing gloves; automatic calibration and AutoRead functions ensure stable and reproducible results. The multifunctional display for pH, mV and temperature is always easy to read.

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:	$\pm 1200.0/\pm 0.3$
	$\pm 2000/\pm 1$
Temperature:	-5.0 °C ... 105.0 °C
Accuracy:	± 0.1 °C
Temperature compensation:	Automatic via pH electrodes with integral temperature probe, TFK 325 or Pt1000

Type	Description	PK	Cat. No.
pH 3110 Set 2	Case set including Sentix 41 and accessories	1	9.774.354

pH INDICATOR STRIPS



The CHEMSOLUTE® pH indicator strips enable fast and accurate pH value determination. The range offers suitable products for a wide variety of pH value intervals.

- High accuracy and easy legibility
- Stable carrier strips with coloured test fields
- Non-bleeding, no contamination of the medium
- 100 strips per pack

Range	pH steps	PK	Cat. No.
pH			
0 - 14	1.0	100	2714.0001
0 - 14 *	1.0	100	2717.0001
0 - 6.0	0.5	100	2730.0001
2.0 - 9.0	0.5	100	2740.0001
4.0 - 7.0	**	100	2760.0001
5.0 - 10.0	0.5	100	2770.0001
7.5 - 14.0	0.5	100	2790.0001

* in flip-top vial

** 4.0 - 4.4 - 4.7 - 5.0 - 5.3 - 5.5 - 5.8 - 6.1 - 6.3 - 7.0

TEMPERATURE MEASUREMENT

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 m. value (100 to 275) ±0.5 (-30 to 99.9) ±1 (-50 to -30.1)
Resolution (°C):	0.1
Power supply:	Lithium (CR2032)

Type	PK	Cat. No.
Testo 106	1	9.718 208
Testo 106-T1 Kit	1	9.718 209
TopSafe protective sleeve (IP67)	1	9.718 232

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

-ebro-
Measurements for Life



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

Type	PK	Cat. No.
EBI 20-T1	1	9.908 069
EBI 20-T1-Set	1	9.908 073

WIRELESS MIN./MAX. ALARM THERMOMETER TYPE 13090



NEW



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)

Specifications

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

Type	PK	Cat. No.
13090	1	6.325 021

LLG-GENERAL PURPOSE THERMOMETERS ECONOMY



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

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

BASIC TIMER



The LABSOLUTE® basic timer is a handy, lightweight and functional timer with a simple design.

- Dimensions (W x H x D): 50 x 69 x 8 mm
- LR-54 battery included
- Countdown function
- Four-digit display up to 99 minutes, 59 seconds
- With magnet on the back
- With power switch on the back for longer battery life

Description	PK	Cat. No.
Basic timer	1	7.695 455

DUAL TIMER



The LABSOLUTE® dual timer is ideal for comparing different countdown or countup times. The elapsed time is indicated both audibly and visibly by the T1 and T2 buttons lighting up green and then red during the countdown. The timer is easy to operate and can be read without errors thanks to the large display and the clearly visible digits.

- Dimensions (W x H x D): 90 x 75 x 20 mm
- 2x AAA batteries included
- Large display with two-part display, each six-digit, up to 99 hours, 59 minutes, 59 seconds
- Audible alarm volume with three level settings
- Visual alarm
- Memory function
- Simple fastening with magnet, clip and stand

Description	PK	Cat. No.
Dual timer	1	7.695 454

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

Type	PK	Cat. No.
LLG-Timer Triple pro	1	6.313 417

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 included)

Type	Description	PK	Cat. No.
LLG-Timer Cube	5-15-30-60 minutes	1	6.291 217

WEIGHING

PRECISION BALANCE PNJ

KERN



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

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

WEIGHING PAPER

LABSOLUTE



The smooth surface of the weighing papers guarantees a good sample recovery.

- Dimensions (W x D): 95 x 110 mm
- Weight: 45 g/m²

Description	PK	Cat. No.
Weighing paper	250	7.697 925

SEMI-MICRO- AND ANALYTICAL BALANCES CUBIS® II

SARTORIUS



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

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

SAMPLE DISHES WITH HANDLE, ALUMINIUM

LABSOLUTE



The LABSOLUTE® sample dishes made of aluminium are stable in form but yet of low weight. The smooth and flat bottom guarantees a firm stand. With practice hand grip. Temperature resistance guaranteed up to 210 °C.

Dimensions (Ø x H)	PK	Cat. No.
mm		
43 x 12	100	7.696 265
57 x 14	100	7.696 266
70 x 16	100	7.696 267

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



Large digital display

Type	Plug type	PK	Cat. No.
Multi Reax	EU	1	9.839 810
Multi Reax	UK	1	6.204 223
Multi Reax	CH	1	6.491 906

ROCKING SHAKERS SHRK SERIES



- **Overload protection**
- **Spill-Resistant Design**



07AL2



04DG

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

Type	Display type	PK	Cat. No.
07AL1	analogue	1	4.659 476
07AL2	analogue	1	4.659 477
04DG	digital	1	4.659 481

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

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

MPHDGL: as MPHDG, but with opaque lid



04HDG

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	3.6 kg
Orbital shaker	4 microplates or
Microplate shaker	2 racks for microtubes
Permissible ambient conditions:	5 to 40 °C
Power supply:	230 V, 50/60 Hz

Type	PK	Cat. No.
04HDG	1	4.659 471
MPHDG	1	4.659 473
MPHDGL	1	4.659 472



MQuant® pH INDICATOR STRIPS

The MQuant® pH tests are suited for all media in environmental analysis and in industrial controls.

Advantages of pH indicator strips over indicator paper: since the indicator does not bleed, the strip can be left in the measurement medium without contaminating it.

Using these test strips is fairly easy, the pH value is measured semiquantitatively by visual comparison of the four reaction zones on the test strip with the fields of the color scale, perfectly matching the reaction color.

The clever Safetyedge boxes allow for safe storage and convenient withdrawal of the test strips.



Range	Gradation	Type	PK	Cat. No.
pH	pH			
0-14	0-1-2-3-4-5-6-7-8-9-10-11-12-13-14	Universal	100	109535.0001
4-7	4,0-4,4-4,7-5,0-5,3-5,5-5,8-6,1-6,5-7,0	Special	100	109542.0001
5-10	5,0-5,5-6,0-6,5-7,0-7,5-8,0-8,5-9,0-9,5-10,0	Neutralite	100	109533.0001
6.5-10	6,5-6,8-7,1-7,4-7,7-7,9-8,1-8,3-8,5-8,7-9,0-9,5-10,0	Special	100	109543.0001

MQuant® pH INDICATOR PAPER

The pH indicator papers are manufactured by impregnating high-quality filter papers with indicator solutions or mixtures. The paper is dried, cut to size and packaged in the appropriate sizes. Indicator paper in rolls is more suitable for long-term storage because it is protected against external influences.

Roll (4.8 m) with color scale pH 1-10. Non-bleeding.



Range	Graduation	Type	PK	Cat. No.
pH	pH			
0-10	0-1-2-3-4-5-6-7-8-9-10	Universal	3	109526.0003



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