KEFO®

SINCE 1949

LABORTOPS

valid until 30th of June 2018

LLG-Syringe Filters
SPHEROS

LLG LABWARE

- **Top Quality at a Low Price!**

- **Tested by an Independent Analytical Laboratory**

NEW

SPHEROS

Further details on page 3

LLG-Short Thread Vials ND9 and Fitting Sealing Caps

Short Thread Vial ND9 with flat bottom and wide opening, clear glass. Sealing cap for ND9 Short Thread Vial.

BIG PACK

Description	PK	Cat. No.
Vial, 1.50 ml, 11.6 x 32 mm	1000	6.290 728
Cap, blue,	1000	6.290 729
Septa silicone white / PTFE red		

LLG Crimp Neck Vials ND11 and Fitting Crimp Caps

Crimp Neck Vial ND11 with flat bottom and wide opening, clear glass. Crimp cap for ND11 Crimp Neck Vial.

BIG PACK

Description	PK	Cat. No.
Vial, 1.50 ml, 11.6 x 32 mm	1000	6.290 730
Cap, aluminium, silver,	1000	6.290 731
Septa, natural rubber red-orange / TEF transparent		

LLG-Crimping Tools ND11

Description	PK	Cat. No.
Manual crimper	1	9.003 471
Manual decapper	1	9.003 367

LLG-Disposable Syringes, 3-part, PP, non-sterile, bulk

- Barrel: PP, Plunger: PP and Polyisoprene rubber
- Smooth flow, tight, high transparency barrel
- Latex-free, pyrogen-free, DEHP-free, non-toxic
- Non-sterile, bulk packed in box of 500
- Defined safety stop to avoid accidental pull-out of plunger
- Suitable for all syringe filters with Luer connection

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

Disposable Syringes HSW NORM-JECT®, 2-part, PP/PE, sterile

- PP barrel, with PE piston, with Luer or Luer-Lock nozzle
- Smooth flow, tight, high transparency barrel
- No rubber, styrene or DEHP, latex- and silicone-oil-free
- Pyrogen-free, PVC-free, non-toxic
- Sterile, individually blister strip packed
- Defined position of the plunger at volume "0" to feel when plunger is completely inserted
- Extended graduation for wider range of application
- Tested for use in HPLC
- Defined safety stop to avoid accidental pull-out of plunger

Capacity ml	Nozzle type	PK	Cat. No.
1 : 1/100 (Tuberculin)	Luer-Slip	100	9.410 000
2 (3)	Luer-Slip	100	9.410 002
5 (6)	Luer-Slip	100	9.410 005
10 (12)	Luer-Slip	100	9.410 010
20 (24)	Luer-Slip	100	9.410 020
2 (3)	Luer-Lock	100	6.234 387
5 (6)	Luer-Lock	100	6.234 388
10 (12)	Luer-Lock	100	6.286 306
20 (24)	Luer-Lock	100	7.631 525

LLG-Syringe Filters *SPHEROS*

Cost-efficient syringe filters for filtration of a broad variety of solvents and aqueous or inorganic solutions. These syringe filters cover most applications in HPLC, pharmaceutical, environmental, biotechnology and food and beverage testing laboratories.

- Robust housing made of Polypropylene
- Multifunctional Syringe filters with female Luer-Lock inlet and
  male Luer-Slip outlet
- Suitable for all syringes with Luer connection
- Sterile or non-sterile
- Sterile products in individual hard blister packaging

- **Top Quality at a Low Price**

- **Tested by an Independent Analytical Laboratory**

Cellulose Acetate

Hydrophilic membrane for filtration of aqueous liquids. Low protein binding capacity.
Especially suitable for biological macromolecules, water soluble oligomers and polymers.
With female Luer-Lock inlet and male Luer-Slip outlet.
Sterile products in individual hard blister packaging.

Filter diam.	Pore size	Housing	Sterile	PK	Cat. No.
mm	µm				
13	0.22	PP, red	-	100	6.272 802
13	0.45	PP, red	-	100	6.272 803
25	0.22	PP, red	-	50	6.272 804
25	0.45	PP, red	-	50	6.272 805
13	0.22	PP, red	+	100	6.272 806
13	0.45	PP, red	+	100	6.272 807
25	0.22	PP, red	+	45	6.272 808
25	0.45	PP, red	+	45	6.272 809

Nylon

Hydrophilic membrane for filtration of aqueous and organic liquids with medium polarity.
Very good chemical resistance to esters, alkaline solutions and alcohols.
With female Luer-Lock inlet and male Luer-Slip outlet.

Filter diam.	Pore size	Housing	Sterile	PK	Cat. No.
mm	µm				
13	0.22	PP, pink	-	100	6.272 810
13	0.45	PP, pink	-	100	6.272 811
25	0.22	PP, pink	-	50	6.272 812
25	0.45	PP, pink	-	50	6.272 813

PTFE

Hydrophobic membrane for filtration of non-polar liquids and gases.
Very good chemical resistance to all kinds of solvents and alkaline solutions.
With female Luer-Lock inlet and male Luer-Slip outlet.

Filter diam.	Pore size	Housing	Sterile	PK	Cat. No.
mm	µm				
13	0.22	PP, white	-	100	6.272 816
13	0.45	PP, white	-	100	6.272 817
25	0.22	PP, white	-	50	6.272 818
25	0.45	PP, white	-	50	6.272 819

You can find our complete range on our website.

Cryovials with external screw thread, PP, sterile

Thermo SCIENTIFIC

Self-standing, conical. Increase storage capacity in mechanical and gaseous phase liquid nitrogen freezers. With writing area and graduation. Gamma radiation sterilized. One-handed operation possible. DNAse/RNAse free. Pyrogen-free and non-cytotoxic.

With PP screw cap and silicone gasket, System 100.

Capacity	Ext. diam.	Height		PK	Cat. No.
ml	mm	mm			
1.5	12	48		25	9.400 913

With HDPE screw cap and sealing ring, Type 5000.

Capacity	Ext. diam.	Height		PK	Cat. No.
ml	mm	mm			
1.2	13.5	38		25	9.400 941
2.0	13.5	48		25	9.400 942
5.0	13.5	92		50	6.290 797

LLG-Cryotubes, PP, sterile

LLG LABWARE

- **Good Value**
- **Completely Made of PP**

With star-shape in the screw cap, for automated capper/decapper. Temperature resistant down to -196 °C. **Not appropriate for operations in liquid nitrogen.** With marking area, fill line and graduations printed on the vial. Safe and precise handling of biotechnology materials. Bar-code printed on each tube. DNase/RNase free. Vials and caps are autoclavable at 121 °C.

- Homogeneous conception: single-body, single-turn screw cap
- Printed graduations for accurate measurements
- Large white area for writing specimen identification
- With stand ring

Packed in 2 bags of 50 tubes.

Capacity	Ext. diam.	Height	Thread	PK	Cat. No.
ml	mm	mm			
1.2	12.6	40.2	external	100	9.401 160
2.0	12.6	45.6	external	100	9.401 162
2.0	12.6	48.2	internal	100	9.401 163
2.0	12.6	44.5	external*	100	9.401 164
5.0	12.6	87.6	external	100	9.401 166
5.0	12.6	90.3	internal	100	9.401 168

* Without stand ring

Insert Cap Disks for LLG-cryotubes, PP

LLG LABWARE

Cap-disk with star-shaped insert. For colour-coding of LLG-cryotubes and quick identification of the samples.

Colour	PK	Cat. No.
blue	1000	9.401 170
white	1000	9.401 171
yellow	1000	9.401 172
red	1000	9.401 174
green	1000	9.401 175

LLG-Cryogenic Storage Boxes, plastic coated, white

Made of cardboard, plastic coated.
Without divider.
Please order inserts separately.

BIG PACK

Dimensions (l x w x h) mm	PK	Cat. No.
133 x 133 x 50	10	6.290 869
133 x 133 x 75	10	6.290 878
133 x 133 x 100	10	6.290 879
136 x 136 x 50	10	6.290 870
136 x 136 x 50	10	6.290 873
136 x 136 x 50	10	6.290 877

## LLG-Partition Inserts for Cryoboxes, white
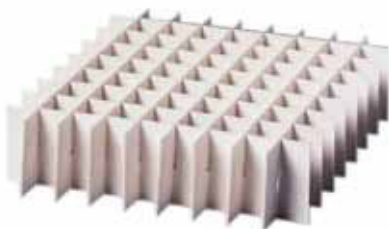
With compartment heights and formats as indicated.

BIG PACK

| Dimensions (l x w x h) mm	Array	For tubes diam. mm	PK	Cat. No.
133 x 133 x 30	9 x 9	ca. 13,0	10	6.290 871
133 x 133 x 30	10 x 10	ca. 12,0	10	6.290 876
136 x 136 x 30	9 x 9	ca. 12,5	10	6.290 872
136 x 136 x 30	10 x 10	ca. 13,9	10	6.290 874
136 x 136 x 65	9 x 9	ca. 13,9	10	6.290 875

Cryogenic Boxes, 81 Well, PP, autoclavable
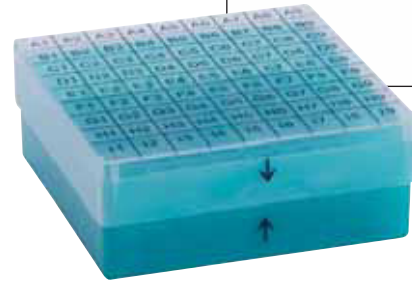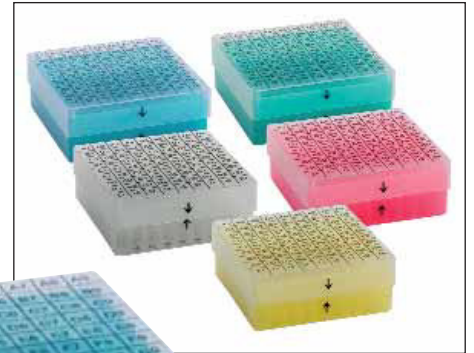
The boxes are made of polypropylene and can be used in temperatures as low as -90 °C. The boxes are autoclavable at +121 °C for 20 minutes. The boxes have a fixed grid divider with 9 x 9 cells and are suited for 1.2 ml and 2 ml cryogenic vials. Cellcodes are printed on the lid for easy identification.

BIG PACK

Type	Dimensions (l x w x h) mm	PK	Cat. No.
Blue	130 x 130 x 50	5	6.290 855
Green	130 x 130 x 50	5	6.290 856
Natural	130 x 130 x 50	5	6.290 857
Red	130 x 130 x 50	5	6.290 858
Yellow	130 x 130 x 50	5	6.290 859

Cryogenic Boxes, SYSTEM 100™ 5026, PC, autoclavable
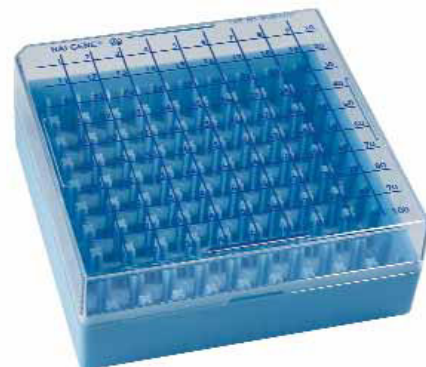
Stable, autoclavable PC. With printed grid on lid for cryovials and similar tubes up to 13.5 mm diameter. Temperature resistant from -196 to +121 °C. With grid numbers for reliable identification of individual samples. For tubes up to 12.5 mm diameter.

For tubes ml	Dimensions (l x w x h) mm	Array	PK	Cat. No.
1/1.5	133 x 133 x 52	10 x 10	1	9.400 927

Deep Freeze Labels TOUGH-SPOTS®

Heathrow Scientific® LLC

Pre-cut peel-off round labels for 0.5 and 1.5/2.0 ml microcentrifuge tube tops. Temperature resistant from -196 °C to 80 °C.

- Easy to write on: PVC labels accept writing from most lab markers.
- Convenient: Dispensing box assists in labelling individual tubes used in small experiments.

Colour	Diam. mm	For tubes	PK	Cat. No.
White	9.5	0.5 ml	1000	9.040 711
Blue	9.5	0.5 ml	1000	9.040 712
Green	9.5	0.5 ml	1000	9.040 713
Red	9.5	0.5 ml	1000	9.040 714
Yellow	9.5	0.5 ml	1000	9.040 715
White	13.0	1.5/2.0 ml	1000	9.040 716
Blue	13.0	1.5/2.0 ml	1000	9.040 717
Green	13.0	1.5/2.0 ml	1000	9.040 718
Red	13.0	1.5/2.0 ml	1000	9.040 719
Yellow	13.0	1.5/2.0 ml	1000	9.040 720

Deep Freeze Labels Cryo-Babies®/Cryo-Tags®

Heathrow Scientific® LLC

High Temperature Resistance

Temperature resistant from -196 °C to +150 °C.
All labels withstand freezer temperatures down to -196 °C (liquid and vapour phase nitrogen), boiling water baths, autoclaving and moderate ovens (150 °C). Chemically inert labels resist most organic solvents and caustic agents. They adhere to most plastics, glass and metals without cracking, peeling or degrading. Made with a flexible, polyolefin label material and acrylic adhesive. Convenient dispensing box assists in labelling individual tubes used in small experiments. PVC labels accept writing from most lab markers including solvent resistant pens. Colour: white.

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

Cool Packs Icecatch®-Gel

ICECATCH®
Advanced Cooling Solutions

Reusable

For temperature sensitive products used in the pharmaceutical, biotech, medical and food industries.

- Cooling gel
- Reliable cold storage through the use of immobilised coolant
- For repeat usage due to the use of robust PA/PE film
- Unobjectionable use in the pharmaceutical and food industries
- Phase transition 0 °C
- Spreading of heat absorption around the 0 °C range through the use of immobilised cooling gel
- Optimal price/heat absorption capacity relationship

Dimensions (W x D x H) mm	Weight g	PK	Cat. No.
90 x 150 x 20	170	80	9.695 001
90 x 180 x 20	230	60	9.695 002
140 x 190 x 30	460	32	9.695 003
140 x 240 x 40	690	24	9.695 004

Cool Packs Freez'Pack®

CAMPINGAZ.

- Composition: water, carboxymethyl cellulose, acticides and blue dye
- Suitable for food contact (non-toxic coolant)
- Dishwasher safe

BIG PACK

Type	Dimensions (W x D x H) mm	Weight g	PK	Cat. No.
Freez'Pack® M5	150 x 80 x 25	200	10	6.290 795
Freez'Pack® M20	200 x 172 x 30	741	5	6.290 796
Freez'Pack® M30	255 x 210 x 30	1100	5	6.290 852

Cooling Boxes, Icetime® Plus/Icetime® Plus Extreme

CAMPINGAZ.

- Strong, high quality PU insulation
- Lockable lid, which clicks audibly when closing
- Handle for easy transport

Icetime® Plus Extreme:
- Antimicrobial walls for smell, fungi and mould

Type	Capacity	External dimensions (W x D x H)	Weight		PK	Cat. No.
	litres	mm	g			
Icetime® Plus	26	407 x 313 x 424	2400		1	6.284 954
Icetime® Plus	30	410 x 310 x 460	2600		1	6.284 527
Icetime® Plus Extreme	29	410 x 310 x 460	2700		1	7.645 874

Cooling Bag Fold'N Cool™

CAMPINGAZ.

The cooler Fold'N Cool™ 30 L has a wide range of uses and can be laid flat after use. 1 large front pocket with zip, 2 carrying handles and hanging loop.

- 100 % polyester with PU coating on the back
- Easy-to-clean inner material, food-free PEVA
- Isolation: high-performance EPE foam
- Dark blue/grey

Capacity	External dimensions (W x D x H)	Weight		PK	Cat. No.
litres	mm	g			
30	390 x 250 x 380	760		1	6.266 054

Isolation Box Icecatch®

ICECATCH®
Advanced Cooling Solutions

The standard thermo boxes made of Styrofoam® for temperature sensitive products used in the Pharmaceutical and food industries which have to be stored and transported within a specific temperature spectrum. In combination with the Icecatch cooling elements the perfect solution for the transport of temperature sensitive products.

Colour: white
Weight of foam: 20 g/l.

BIG PACK

Capacity	External dimensions (W x D x H)	Wall thickness		PK	Cat. No.
L	mm	mm			
3.1	260 x 170 x 190	30		5	6.290 853
9.1	335 x 255 x 230	30		5	6.290 854

You can find our complete range on our website.

Laboratory Mixers, BagMixer®

interscience

9.570 098

6.204 551

6.224 287

For sample preparation with easily adjustable paddle system. The BagMixer® is available in 3 sizes and blends all sample types prior to their microbial analysis. Thanks to their unique adjustable paddle system the blending chamber can be adjusted to the sample volume. Combined with the variable speed, a higher bacterial recovery rate is achieved. All BagMixer® units are fitted with a timer. Constructed in stainless steel. The fully opening door enables easy cleaning.

BagMixer® 400 P with stainless steel door.
BagMixer® 400 W and 400 CC with see through glass door.

All units have a 3-year warranty and life guarantee for shock absorbers and window door.

Type	Volume ml	External dimensions (W x D x H) mm	PK	Cat. No.
BagMixer® 400 P	50 to 400	260 x 390 290	1	6.204 551
BagMixer® 400 W	50 to 400	260 x 390 290	1	6.224 287
BagMixer® 400 CC	50 to 400	260 420 265	1	9.570 098

Laboratory Mixer Bag Rotator Genie™

NEW

Gentle and Efficient Mixing

Powerful and rugged rotator for effective mixing of transfer packs or random sealed bags, maintaining platelets and other sample components in suspension without risk of damage.
- Wire basket holds up to 40 standard 300 ml transfer packs (5 packs per compartment)
- Specialized basket design prevents bag movement
- Gentle yet thorough mixing
- Bags rotate "end-over-end" with a fixed speed of 3 RPM regardless of the number of bags
- Heavy and durable base prevents unit from tipping over

Specifications
Speed:	3 rpm
Capacity:	40 x 300 ml
Dimensions (W x D x H):	252 x 508 x 267 mm
Weight:	7.7 kg

Type	PK	Cat. No.
Bag Rotator Genie™, EU plug	1	6.272 988

Blender Bags, BagSystem®

Sample bags for various applications. Available in different sizes, with or without filter function for keeping back particles.
BagPage® bags are eqipped with a membrane filter.
BagFilter® P bags are additionally divided: one area for the sample and one for taking the filtrated liquid.
RollBag® bags are equipped with a reinforced opening and therefore suitable for sample transportation and use in the **BagMixer®** (or other homogenizers).
BagLight® bags are filterless single bags.

interscience

9.570 075

9.570 078

9.570 096

Type	Description	Width mm	Height mm	PK	Cat. No.
BagLight® 100	plain bag, sleeve 25	110	185	500	9.570 075
BagLight® 400	plain bag, sleeve 25	175	300	1000	9.570 097
BagLight® 3500	plain bag, sleeve 25	380	510	500	9.570 077
BagFilter® 400 P	side filter bag, sleeve 25	190	300	500	9.570 078
BagFilter® 3500 P	side filter bag, sleeve 10	380	510	100	9.570 079
BagPage® 100	full-size filter bag, sleeve 25	180	95	500	9.570 080
BagPage® Plus 400	full-size filter bag, sleeve 25	190	300	500	9.570 081
BagPage® 3500	full-size filter bag, sleeve 10	380	510	100	9.570 082
RollBag® 1300 ml	plain single bags	175	290	500	9.570 096

Accessories for blender bags BagSystem®

BagOpen®   BagPipet®

Type	Description	PK	Cat. No.
BagOpen® 80/100	bag opener	1	9.570 083
BagOpen® 400	bag opener	1	9.570 084
BagOpen® 3500	bag opener	1	9.570 085
BagPipet®	pipette with 3 fixed graduations: 0.1, 0.9, 1.0 ml	1	9.570 091
BagTips® Regular	straws for BagPipet®, 19 cm, sterile	1000	9.570 092
BagTips® Jumbo	straws for BagPipet®, 24 cm, sterile	1000	9.570 093

Desiccator Star, PMMA

Includes four transparent acrylic shelves, tray, hygrometer and desiccant, with positions for up to 26 shelves and stackable.

Specifications
Panels:	clear
Material:	PMMA
Temperature resistance:	-20 °C to + 70 °C
Maximum all-over load per shelf:	10 kg
Total all-over load:	30 kg

Type	Volume	External dimensions (W x D x H)	Weight	PK	Cat. No.
	litres	mm	kg		
Star	42	310 x 375 x 525	7.0	1	9.042 651

Desiccators Auto Dry Box

Automatic Drying: Without Desiccant

Automatic drying and storage without desiccant. Ideal for the long-term storage of e.g. Reference samples, electronic components or optical instruments under defined moisture conditions. Relative humidity adjustable in 3 steps between 25 % and 55 % relative humidity, very quiet operation. Includes 1 to 3 shelves, lockable glass door and analogue hydrometer. Model RT-48C with pull-out shelf.

Specifications
Max. load shelfs:	10 kg
Power:	220-240 V

Type	Volume	External dimensions (W x D x H)	Max. number shelves	PK	Cat. No.
	litres	mm			
HD-40GD	32	340 x 350 x 390	1	1	6.286 116
RT-48C	46	312 x 384 x 470	1	1	6.286 117
AD-75	72	400 x 412 x 555	3	1	6.286 118
AD-106	114	400 x 412 x 835	3	1	6.286 119

LLG-Desiccant Drying Agents, silica gel, self-indicating

With orange indicator colour. Grain size 1 to 3 mm or 2 to 5 mm. The gel is naturally orange when active and at a 6 weight-% saturation level. As the gel adsorbs moisture, the colour develops into a dark shade. The range of application is identical with that of white silica gel. The colour change, however, represents a great advantage since it allows monitoring of the saturation level. The gel can be regenerated when heated at a temperature of maximum 120 °C until it turns to its original orange colour.

Adsorption capacity	RH 20 %	12 weight %
(RH : residual moisture)	RH 35 %	20 weight %
	RH 50 %	27 weight %
	RH 90 %	40 weight %

Granulation	Package contents	PK	Cat. No.
1 to 3 mm	Tin, 1 kg	1	9.042 584
1 to 3 mm	Bucket, 3 kg	1	9.042 585
1 to 3 mm	Bucket, 8 kg	1	9.042 586
2 to 5 mm	Tin, 1 kg	1	9.042 581
2 to 5 mm	Bucket, 3 kg	1	9.042 582
2 to 5 mm	Bucket, 8 kg	1	9.042 583

Disposable Gloves TouchNTuff®, Nitrile, Powder-Free

EN 374   EN 374

Ansell

NEW

! Antistatic

- Manufactured from nitrile, TouchNTuff® offers up to four times the puncture resistance of comparable natural-latex gloves, and three times the resistance of similar neoprene gloves.
- It contains no natural rubber proteins, which means no risk of Type I allergies for the wearer. Primary skin irritation studies and Insult Patch Tests have also shown no evidence of risk from irritation or allergic contact dermatitis.
- With a unique "Thin Nitrile Technology" formulation, this glove offers easy donning and strong grip in wet or dry conditions.
- Highly versatile and suitable for many different uses
- AQL 1.5 (EN374)
- **Cat. III Low Chemical resistant.**
- 100 % nitrile, green, powder-free, 0.1 mm thick.
- Supplied in dispenser box containing 100 gloves.

TouchNTuff® is anti-staticity tested (EN 1149-1 & 1149-3) and meets the requirements defined in EN 1149-5

Size	Length		PK	Cat. No.
	mm			
S (6 to 7)	240		100	9.005 400
M (7 to 8)	240		100	9.005 401
L (8 to 9)	240		100	9.005 402
XL (9 to 10)	240		100	9.005 403

Disposable Gloves Pearl, Nitrile, Powder-Free

EN 374   EN 374

! 10 Boxes of 100 Gloves

Disposable gloves in different colours

- Nitrile gloves with rolling edges
- Micro-roughened finger tips
- Suitable for handling food
- Non-sterile
- AQL 1.5 (EN455), T. 1-3
- **Cat. III Low Chemical resistant**
- Powder-and latex-free
- Supplied in 10 dispenser boxes containing 100 gloves

BIG PACK

Type	Size	Colour	PK	Cat. No.
COBALT PEARL	XS	cobalt blue	1000	6.290 798
COBALT PEARL	S	cobalt blue	1000	6.290 799
COBALT PEARL	M	cobalt blue	1000	6.290 800
COBALT PEARL	L	cobalt blue	1000	6.290 801
COBALT PEARL	XL	cobalt blue	1000	6.290 802
BLACK PEARL	XS	black	1000	6.290 803
BLACK PEARL	S	black	1000	6.290 804
BLACK PEARL	M	black	1000	6.290 805
BLACK PEARL	L	black	1000	6.290 806
BLACK PEARL	XL	black	1000	6.290 807
OPAL PEARL	XS	turquoise	1000	6.290 808
OPAL PEARL	S	turquoise	1000	6.290 809
OPAL PEARL	M	turquoise	1000	6.290 810
OPAL PEARL	L	turquoise	1000	6.290 811
VIOLET PEARL	XS	violet	1000	6.290 812
VIOLET PEARL	S	violet	1000	6.290 813
VIOLET PEARL	M	violet	1000	6.290 814
VIOLET PEARL	L	violet	1000	6.290 815
VIOLET PEARL	XL	violet	1000	6.290 816
PINK PEARL	XS	pink	1000	6.290 817
PINK PEARL	S	pink	1000	6.290 818
PINK PEARL	M	pink	1000	6.290 819
PINK PEARL	L	pink	1000	6.290 820
MINT PEARL	XS	mint	1000	6.290 821
MINT PEARL	S	mint	1000	6.290 822
MINT PEARL	M	mint	1000	6.290 823
MINT PEARL	L	mint	1000	6.290 824
MINT PEARL	XL	mint	1000	6.290 825
PEACH PEARL	XS	apricot	1000	6.290 826
PEACH PEARL	S	apricot	1000	6.290 827
PEACH PEARL	M	apricot	1000	6.290 828
PEACH PEARL	L	apricot	1000	6.290 829
RED PEARL	XS	red	1000	6.290 830
RED PEARL	S	red	1000	6.290 831
RED PEARL	M	red	1000	6.290 832
RED PEARL	L	red	1000	6.290 833
RED PEARL	XL	red	1000	6.290 834

LLG-Safety Eyeshields *basic +*

! Very Lightweight - only 23 g

- CE approved to EN 166 and EN 170
- Economic Safety Eyeshields ideal for essential protection
- 180° field of vision
- Frame made of tested hypo-allergenic material
- 100 % UV protection (up to 380 nm)
- Very light
- Weight: 23 g

Colour	Lens	PK	Cat. No.
Clear	Clear, uncoated, 2-1.2 U 1 F CE	10	6.290 868

Respirators Aura™ 9300+ Series, Folding Masks

9.005 672   9.005 673

Particle masks Series 3M™ Aura™ 9300+ offer effective respiratory protection in industrial applications where workers are exposed to dust and/or non-volatile liquid particles.

Features and advantages of the Aura™ 9300+ series
- Clear vision: Embossed top panel helps reduce fogging of eyewear
- Low breathing resistance filter technology combines the benefits of 3M's electret particulate filter material with advanced low breathing resistance filter technology
- 3M™ Cool Flow™ Valve effectively removes heat build up to provide a cooler and more comfortable wear
- Innovative chin tab improves ease of donning and adjustment to help achieve a comfortable fit
- Ingenious 3-Panel design fits a wide range of face shapes and sizes to accommodate your facial movements
- Coloured headbands for easy identification: yellow for FFP1, blue for FFP 2 and red for FFP3
- Flat-fold; easy to store when not in use
- Hygienic individual packaging helps to protect the respirator from contamination before use

Authorization: EU construction test (CE mark)
Testing standards: EN 149:2001 + A1:2009

Type	Description	Protection-level	PK	Cat. No.
Aura™ 9310+	without valve	FFP1	20	9.005 670
Aura™ 9312+	with Cool-Flow valve	FFP1	10	9.005 671
Aura™ 9320+	without valve	FFP2	20	9.005 672
Aura™ 9322+	with Cool-Flow valve	FFP2	10	9.005 673
Aura™ 9330+	without valve	FFP3	20	9.005 674
Aura™ 9332+	with Cool-Flow valve	FFP3	10	9.005 675

Mini-Ultrasonic Cleaner LLG-uni*SONIC* 1

WARRANTY 3 YEARS

! • Small and Compact
• For Glasses and Laboratory Parts

For convenient cleaning of goggles or smaller laboratory instruments. Eco-friendly, only needs warm water. By ultrasonic sound millions of small air bubbles are generated. Combined with very high pressure, these can achieve a fast, efficient and effortless cleaning.

- Ready to use, no assembly required
- Automatic 3-minute-operation can be stopped anytime
- Removable lid
- Stainless steel tank

Specifications

Capacity:	appox. 340 ml
Frequency:	45 kHz
Cleaning Performance:	30 Watt
Outer Dimensions (W x D x H) approx.:	200 x 115 x 115 mm
Dimensions tank (W x D x H) approx.:	155 x 80 x 40 mm
Weight:	630 g
Power supply:	220 - 240 V, 50 Hz

Type	PK	Cat. No.
LLG-uni*SONIC* 1	1	6.263 560

Hood for Cleanroom, polyester

ASPURE

- 100 % polyester
- Washable
- Suitable for cleanroom class ISO 5

Size	Colour	PK	Cat. No.
S/M	white	1	4.659 060
L/XL	white	1	4.659 061
S/M	blue	1	4.659 062
L/XL	blue	1	4.659 063

Cleanroom Gloves Nitrilite® *Silky,* nitrile, powder-free

EN 374   EN 374

Ansell

- • **High Chemical and Puncture Resistance**

- • **For a Wide Range of Industrial Applications**

Produced in a controlled powder-free environment, they feature low levels of extractables and particles for excellent product protection. The 100 % nitrile polymer prevents the risk of allergies related to latex proteins for the wearer. It also provides exceptional chemical and puncture resistance for further safety. All this, added to optimal electrical properties, makes Nitrilite® gloves ideal for a wide range of industrial sectors.
- AQL of 1.5
- **Cat. III**

Packaging: 50 gloves vacuum sealed in an unprinted polybag, two bags of 50 gloves per master polybag. All packaging and labeling is printed with IPA-resistant ink. The gloves are double bagged for superior contamination control. Packed in an ISO Class 5 cleanroom.

Size	Length	PK	Cat. No.
	cm		
S	30	100	6.253 290
M	30	100	6.253 291
L	30	100	6.253 292
XL	30	100	6.253 293
XXL	30	100	6.262 160

Overall for Cleanroom, with lateral zip, polyester

ASPURE

The 100 % polyester overall is available in two different colour versions. Falling of hair, dust and other particles from the overall is prevented by double sleeves. In the area of the sleeves, the waist and the lower hem, rubber bands are incorporated. Oblique lateral zip. Washable. Suitable for cleanroom class ISO 5. Surface resistance: 10^6 - $10^8\,\Omega$.

Size	Colour	PK	Cat. No.
XS	white	1	4.659 040
S	white	1	4.659 041
M	white	1	4.659 042
L	white	1	4.659 043
XL	white	1	4.659 044
XS	blue	1	4.659 045
S	blue	1	4.659 046
M	blue	1	4.659 047
L	blue	1	4.659 048
XL	blue	1	4.659 049

## 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.

Each Sticky Mat consists of a stack of tear-off adhesive polyethylene sheets, effectively capturing dirt and dust from foot-traffic and equipment wheels before they enter controlled environments. A clear release sheet protects the top sheet of the sticky mat until it is ready to use. The corner tabs are consecutively numbered to show the number of remaining sheets.

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.
Pack of 10 mats of 30 sheets	white	10	6.272 241
Pack of 10 mats 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
Frame for Cleanroom mats Sticky Mat	grey	1	6.272 245

Cleanroom-Swabs

ASPURE
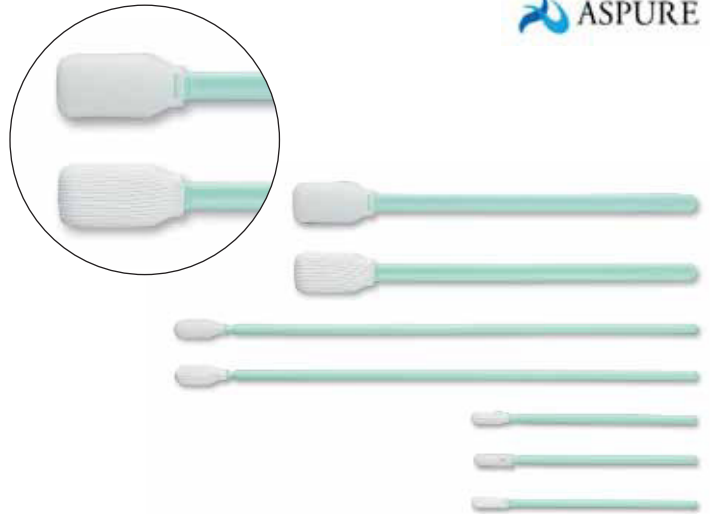
Cleanroom Swabs with polypropylene shaft. Head made of almost particle-free polyurethane or polyester, rounded head.

Material shaft:	PP
Cleanroom class:	ISO 5

Length	Head size	Material Head	PK	Cat. No.
mm	mm			
125	12.7 x 25	PU-foam	100	4.659 074
125	12.7 x 25	Polyester	100	4.659 075
162	6.8 x 16.8	PU-foam	100	4.659 076
162	6.8 x 16.8	Polyester	100	4.659 077
70	4.0 x 12.0	Polyester	100	4.659 078
70	3.5 x 11.0	PU-foam	100	4.659 079
70	3.5 x 11.0	Polyester	500	4.659 080

Cleanroom Wipes, Polyester

ASPURE

Cleanroom wipes, knitted, 229 x 229 mm, laser cut. Extremely low particle number and evaporation residues, minimum formation of dust and lint from the cutting edges due to the use of laser cutting technique. The use of polyester long fibers prevents the generation of lint. Suitable for cleanroom class ISO 5.
150 wipes per bag. Packed in double layer foil.

Dimensions	Cleanroom Class	PK	Cat. No.
mm			
229 x 229	ISO 5	150	4.659 070

LLG-Lab Standing Rest

- **Extra Wide Range of Heights: 51-78 cm**
- **Infinitely Adjustable**

The LLG-Lab Standing Rest is the practical solution for laboratory workplaces where people have to sit as well as 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 (extremly 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, it offers 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	Seat height adjustment mm	PK	Cat. No.
with Glides	510-780	1	6.288 956
with Glides and Foot Ring	510-780	1	6.288 957

Laboratory Trolley Clax Mobil comfort with Box

Ideal for Quick Transport

Stable, multi-use trolley with parking brake.
Push-button collapsing/unfolding.
Made in Germany.
Load capacity:

Total:	60kg
Upper shelf:	20kg
Lower shelf:	40kg

Dimensions

Unfolded (L x W x H):	900 x 580 x 1020 mm
Collapsed (L x W x H):	710 x 550 x 190 mm

Folding box dimensions

Inner dimensions (W x D x H):	335 x 495 x 258 mm
Outer dimensions (W x D x H):	350 x 500 x 260 mm

Type	PK	Cat. No.
Laboratory Trolley, incl. 1 folding box, 46 litres	1	9.148 100
Folding box single, 46 litres	1	9.148 099

LLG-Laboratory Jack, stainless steel

Plates made of stainless steel. Top plate with Ø 10 mm hole.
With non-skid rubber feet. Acc. to DIN 12897.

Dimensions (W x D) mm	Min. height mm	Max. height mm	Max. stat. kg	PK	Cat. No.
200 x 200	60	270	25	1	9.117 220

Overhead Stirrers MICROSTAR control

Overhead Stirrers MINISTAR control

IKA®

WARRANTY 10 YEARS

- **Temperature Measurement in Medium**
- **Vibration Detection**
- **With Timer**

Powerful overhead stirrers in a compact design for special applications.

- Hardened glass display for maximum visibility and chemical resistance
- Vibration sensors detect deviations from permissible thresholds and automatically stop the process
- USB interface, e.g. for documenting parameters or installing firmware updates
- Bluetooth interface
- Easy connection to labworldsoft®
- Temperature measurement directly in the medium with PT1000 temperature sensor

- Temperature reading on display
- Chemical resistant housing
- Continuously adjustable speed
- Microprocessor-controlled speed governor for constant rotational speed, even with changes in viscosity
- Key lock function
- Integrated timer
- **10 years warranty**

Scope of supply: Overhead stirrers incl. Temperature sensor PT1000

Specifications	7.5 control // 15 control // 30 control
Stirring quantity max. (H$_2$O):	5 l // 10 l // 20 l
Max. viscosity:	4000 mPas // 8000 mPas // 20000 mPas
Motor rating input/output:	32 W/22 W
Speed range:	0/30 to 2000 rpm // 0/30 to 1000 rpm // 0/30 to 500 rpm
Temperature range min./max.:	-10 to 350 °C
Temperature accuracy:	±0.5 K
Max. torque:	7.5 Ncm // 15 Ncm // 30 Ncm
Display:	LCD
Chuck range:	0.5 to 8 mm
Dimensions (W x D x H):	60 x 136 x 173 mm
Weight:	1.18 kg // 1.26 kg // 1.26 kg
Protection class DIN EN 60529:	IP 54
Power supply:	100-240 V, 50/60 Hz

Specifications	20 control // 40 control // 80 control
Stirring quantity max. (H$_2$O):	15 l // 25 l // 50 l
Max. viscosity:	10000 mPas // 30000 mPas // 60000 mPas
Motor rating input/output:	60 W/46 W
Speed range:	0/50 to 2000 rpm // 0/30 to 1000 rpm // 0/30 to 500 rpm
Temperature range min./max.:	-10 to 350 °C
Temperature accuracy:	±0.5 K
Max. torque:	7.5 Ncm // 15 Ncm // 30 Ncm
Display:	LCD
Chuck range:	0.5 to 8 mm
Dimensions (W x D x H):	70 x 154 x 193 mm
Weight:	1.56 kg // 1.72 kg // 1.72 kg
Protection class DIN EN 60529:	IP 54
Power supply:	100-240 V, 50/60 Hz

Type	PK	Cat. No.
MICROSTAR 7.5 control	1	6.310 242
MICROSTAR 15 control	1	6.272 998
MICROSTAR 30 control	1	6.310 244

Type	PK	Cat. No.
MINISTAR 20 control	1	6.289 511
MINISTAR 40 control	1	6.310 245
MINISTAR 80 control	1	6.310 246

You can find our complete range on our website.

Magnetic Stirrer IKA Plate (RCT digital)

IKA®

With glass surface. The control can be optimized by regular firmware updates. The integrated timer and counter function supports the control of kinetics and sensitive reactions. The IKA SmartTemp® function protects users intelligently and predictably.

- Alteration of the stirring direction possible
- Heating plate made from aluminium alloy for optimum heat transmission
- Clearly arranged LCD display
- Housing made of glass for optimum cleaning and chemical resistance
- Temperature control directly in the medium with PT1000 temperature sensor
- Adjustable safety circuit up to 360 °C
- IKA SmartTemp® function prevents users from burn injuries
- Timer
- USB-/RS232 interface
- **10 years warranty**

Scope of supply: Magnetic stirrer incl. Temperature sensor PT1000

WARRANTY 10 YEARS

Specifications

Max. stirring quantity (H$_2$O):	20 l
Motor rating input/output:	50 W/9 W
Speed range:	50 to 1500 rpm
Max. stirring bar length:	80 mm
Heating power:	600 W
Heating rate (1 l H$_2$O):	7 K/min
Temperature range:	ambient +10 to 310 °C
Heat control accuracy at 100 °C:	±5 K
Safety circuit:	50 to 360 °C
Connection for ext. temp. sensor:	PT1000, ETS-D5, ETS-D6
Control accuracy with sensor PT1000, ETS-D5/ETS-D6:	±0.5 K/±0.2 K
Set-up Plate Materal:	Aluminium alloy
Set-up Plate Dimensions:	diam. 135 mm
Protection class acc. to DIN EN 60529:	IP 42
Overall dimensions (W x D x H):	160 x 270 x 85 mm
Weight:	2.4 kg
Power supply:	220-230/115/100 V, 50/60 Hz

!

- **Changeable Rotation Direction**
- **PT1000 Included**
- **With Timer**

Type	PK	Cat. No.
IKA Plate RCT digital	1	6.286 692

Magnetic Stirrer C-MAG HS 7 control

IKA®

The magnetic stirrer C-Mag HS 7 control has a square top made of ceramic which offers excellent chemical resistance.
The C-Mag HS 7 control improves over time with regular firmware updates. Control of kinetics and sensitive reactions are supported by the integrated timer and counter function.
- Powerful motor
- Alteration of the stirring direction possible
- Clearly arranged LCD display
- Temperature control directly in the media with PT1000 temperature sensor
- Adjustable safety circuit up to 650 °C
- IKA SmartTemp® hot surface warning to prevent burns
- Elevated control panel for protection against leaking liquids
- Timer
- USB/RS232 interface
- **10 years warranty**

Scope of supply:
Magnetic stirrer incl. Temperature sensor PT1000

Specifications

Max. stirring quantity (H$_2$O):	20 l
Motor rating input/output:	1020 W/9 W
Speed range:	50 to 1500 rpm
Max. stirring bar length:	80 mm
Heating power:	1000 W
Heating rate (1 l H$_2$O):	5 K/min
Temperature range:	ambient +5 to 500 °C
Heat control accuracy at 100 °C:	±5 K
Safety circuit:	100 to 650 °C
Connection for ext. temp. sensor:	PT1000, ETS-D5, ETS-D6
Control accuracy with sensor PT1000, ETS-D5/ETS-D6:	±0.5 K/±0.2 K
Set-up plate Material:	ceramic
Set-up plate Dimensions (W x D):	180 x 180 mm
Protection class acc. to DIN EN 60529:	IP 21
Overall dimensions (W x D x H):	220 x 354 x 88 mm
Weight:	4 kg
Power supply:	220-230/115/100 V, 50/60 Hz

- **Changeable Rotation Direction**
- **PT1000 Included**
- **With Timer**

Type	PK	Cat. No.
C-MAG HS 7 control	1	6.288 285

You can find our complete range on our website.

Batch Mills Tube Mill control/Tube Mill 100 control

IKA®

Suitable for disposable and reusable grinding chambers. By using the disposable grinding chambers the possibility of cross-contamination and the effort of cleaning is eliminated. The mills can be used for hard (Mohs hardness up to 5), dry and brittle materials. They are especially suitable for grinding seeds, such as corn and wheat. The operation of the mill is only possible with properly closed grinding chamber and closed lid, for increased safety.

- Clearly arranged, multilingual OLED-display
- USB interface for control and documentation of all the parameters
- Interval operation available
- Stepless adjustable speed
- Adjustable safety speed and time
- Programmable and storable test conditions
- Reproducible test results
- Timer
- Easy operation with touch keypad
- Dust proof sealed housing
- Quiet operation

Scope of supply:
Tube Mill control: incl. 1 x disposable 40 ml grinding chamber and a multiple use 40 ml grinding chamber
Tube Mill 100 control: incl. 1 x disposable 40 ml and 100 ml grinding chamber, and a multiple use 40 ml grinding chamber.

• **Prevents Cross-Contamination**
• **Low Cleaning Effort**
• **With Timer**

Specifications	Tube Mill control // Tube Mill 100 control
Operating principle:	cutting/impact
Motor rating input/output:	100/80 W
Speed:	5000 to 25000 rpm
Chamber volume:	40 ml // 100 ml
Timer:	5 s to 3 min
Interval timer:	5 s to 60 s
Overload protection:	yes
Circumferential speed:	65 m/s
Max. feed hardness:	5 Mohs
Dimensions (W x D x H):	180 x 300 x 170 mm // 180 x 300 x 212 mm
Weight:	2.7 kg // 2.8 kg
Protection class acc: to DIN EN 60529:	IP 30
Power supply:	220-240 V, 50/60 Hz

6.285 802

9.737 791

Type	PK	Cat. No.
Tube Mill control	1	9.737 790
Tube Mill 100 control	1	7.644 727

Accessories for Batch Mill Tube Mill control/Tube Mill 100 control

Description	For	PK	Cat. No.
Disposable grinding chamber, 40 ml	Tube Mill control, Tube Mill 100 control	10	9.737 791
Disposable grinding chamber, 40 ml, sterile	Tube Mill control, Tube Mill 100 control	10	4.652 716
Disposable grinding chamber, 40 ml, big pack	Tube Mill control, Tube Mill 100 control	100	6.260 495
Disposable grinding chamber, 100 ml	Tube Mill 100 control	10	6.285 802
Disposable grinding chamber, 100 ml, sterile	Tube Mill 100 control	10	6.310 247
Disposable grinding chamber, 100 ml, big pack	Tube Mill 100 control	50	7.644 728

Digital Water Baths

PolyScience®
Temperature Control Solutions

- **Precise & Good Value**
- **Easy to Use**
- **Wide Range of Products**

The PolyScience water baths are characterized by a user-friendly display, high precision, simple operation and an excellent price-performance ratio. The inclined display makes the readability and usage very comfortable. The user-friendly Digital Temperature controller features three temperature pre-sets, for one-touch selection of frequently used set-points, plus a user settable high limit alarm that alerts if the bath temperature exceeds pre-set limits.

- Displays actual and set point temperature simultaneously
- Three push-button pre-sets for frequently used temperatures
- Integrated timer
- Calibration capability
- Five Reservoir sizes from 2 to 28 litres
- Reservoir drain (10, 20 and 28 liter baths)
- Primary and automatic safety thermostats
- Stainless steel tank with hinged gable lid
- 3.25" illuminated LCD-Display
- Maximum Ambient Temperature: 40 °C
- Sample tray included
- Temperature Range: Ambient: + 5 to 99 °C
- Temperature Uniformity: ±0.2 °C
- Temperature Stability: ±0.1 °C

Scope of supply: Wather bath with lid.

Volume	External dimensions (W x D x H)	Internal dimensions (W x D x H)	Power consumption		PK	Cat. No.
litres	mm	mm	W			
2	229 x 305 x 343	109 x 99 x 152	120		1	6.267 596
5	368 x 305 x 343	274 x 127 x 152	360		1	6.267 597
10	393 x 432 x 393	269 x 295 x 152	1000		1	6.267 598
20	572 x 432 x 393	432 x 241 x 152	1400		1	6.267 599
28	572 x 432 x 457	432 x 241 x 203	1400		1	6.267 800

LabHEAT®- Heating Mantles Series KM-G

SAF

LabHEAT®- Heating mantles for flasks, round bottom. Flexible glass yarn heating element, outer jacket in glass silk, with diam. 60 mm, bottom out-let from 500ml. Max. heating element temperature 450 °C, 1.5 m power supply (earthed) cable with heating-zone switch and RCD (residual current detection), nominal voltage 230 V AC.

Capacity	Flask diam.	Rating	Heating zones		PK	Cat. No.
ml	mm	W				
100	64	120	1		1	9.642 403
250	85	180	2		1	9.642 404
500	105	250	2		1	9.642 405
1000	131	450	2		1	9.642 406

LLG-Indicator Paper Sticks

Affordable !

Box of 100 indicator paper sticks of 80 mm length.

Range	PK	Cat. No.
pH		
0 - 14	100	9.129 807

LLG-Universal Indicator Paper, strips

Vial with snap lid of 100 pre-cut indicator paper strips, of 65 mm length.

Range	PK	Cat. No.
pH		
1 - 14	100	9.129 805

LLG-Universal Indicator Paper, rolls

Plastic dispensing reel with 1 roll of 5 m.

Range	PK	Cat. No.
pH		
1 - 11	1	9.129 800
1 - 14	1	9.129 802

Multiparameter Pocket Tester
Eutech Elite PCTS

The Elite PCTS pocket tester simultaneously displays pH, conductivity/TDS/salinity with temperature. With leakproof, transparent wide-base cap for upright standing with fill line indicator.

- 1-push calibration
- Large 4-digit double line display
- Backlit graphic display
- Auto-hold readings
- Easy-to-operate, intuitive keypad
- Auto-off

Scope of supply:
Elite PCTS: Tester incl. batteries, lanyard
Elite PCTS Kit: Tester incl. batteries, lanyard, soft carry case, buffer sachet set (pH 4.01, 7.00, 10.01, deionized water, 5 x 20 ml each), CTS conductivity Standard Sachets (5 x 1413 µS/cm KCl and 5 x 2764 µS/cm KCl)

Easy to Use

6.290 135

Specifications

pH range:	-1.00 to 15.00 pH
Resolution:	0.01 pH
Accuracy:	±0.01 pH + 1 LSD
Calibration type:	point to point
Conductivity:	0.0 to 200.0 µS/200 to 2000 µS/2.00 to 20.00 mS
Resolution:	0.1 µS/1 µS/0.01 mS
Accuracy:	±1 % full scale
Calibration points:	1 to 3 points
TDS:	0.0 to 100.0 ppm/100 to 1000 ppm/0.10 to 10.00 ppt
Resolution:	0.1 ppm/1 ppm/0.01 ppt
Accuracy:	±1 % full scale
Calibration points:	1 to 3 points
Salinity:	0.00 to 10.00 ppt
Resolution:	0.10 ppt
Accuracy:	±1 % full scale
Calibration points:	1 point
Temperature range:	0 to 60.0 °C
Resolution:	0.1 °C
Accuracy:	0 to 50 °C (±0.5 °C + 1 LSD) 50 to 60 °C (±1.0 °C + 1 LSD)
Operating temperature:	5 to 45 °C
Relative humidity:	5 to 85 %, non-condensing
Temperature compensation:	ATC
Dimensions (W x L x H):	200 x 45 x 36 mm
Weight:	160 g
Power supply:	4 AAA 1.5 V batteries
Protection class:	IP 67

Type	PK	Cat. No.
Elite PCTS	1	6.290 135
Elite PCTS Kit	1	6.290 140

pH Pocket Tester
Eutech Elite pH/Elite pH Spear

6.290 131   6.290 136

Simultaneously measure pH and temperature with a pocket sized tester designed to provide accurate measurements on the go for a variety of applications. The Pocket Tester Elite pH has a leakproof, transparent wide-base cap for upright standing with fill line indicator.

The Elite pH Spear pocket tester features a spear tip open pore sensor. This rugged and user-friendly tester is ideal for direct measurement of solid or semi-solid samples.

- 1-push calibration
- Large 4-digit double line display
- Backlit graphic display
- Auto-hold readings
- Easy-to-operate, intuitive keypad
- Auto-off

Scope of supply:
Elite pH and Elite pH Spear: Tester incl. batteries and lanyard
Elite pH Kit and Elite pH Spear Kit: Tester incl. batteries, laynard, soft carry case, buffer sachets set (pH 4.01, 7.00, 10.01, deionized water, 5 x 20 ml each)

Specifications

pH range:	-1.00 to 15.00
Resolution:	0.01 pH
Accuracy:	±0.01 pH ±1 LSD
pH calibration points:	1 to 3 points
Temperature range:	0 to 60 °C
Resolution:	0.1 °C
Accuracy:	0 to 50 °C (±0.5 °C + 1 LSD) 50 to 60 °C (±1.0 °C + 1 LSD)
Operating temperature:	5 to 45 °C
Relative humidity:	5 to 85 %, non-condensing
Temperature compensation Elite pH/pH Spear:	ATC/MTC
Dimensions (W x L x H) ElitepH/pH Spear:	200 x 45 x 36 mm/280 x 45 x 36 mm
Weight Elite pH/pH Spear:	160 g/150 g
Power supply:	4 x AAA 1.5 V batteries
Protection class:	IP 67

Type	PK	Cat. No.
Elite pH	1	6.290 131
Elite pH Spear	1	6.290 136
Elite pH Spear Kit	1	6.290 142

Dust Remover Spray, DRUCKLUFT 67

KONTAKT CHEMIE

Compressed air spray for contact-free removal of dust and dirt in hard-to-reach places using the capillary tube nozzles attached. Safe, clean, oil-free. Acc. to Aerosol policy 75/324/EWG no danger of inflammation or explosion when using as intended. DRUCKLUFT 67 contains pure and dry compressed gas and is very efficient.

Examples of use:
photography, precision electronics, watchmaking, cameras, medical technology, microscopy, research.

Pressure: 4.2 bar (20 °C)
Density: 1.00 g/cm³ (20 °C)

Description	Capacity	PK	Cat. No.
	ml		
Dust remover spray	200	1	9.412 800
Dust remover spray	400	1	9.412 801

Label Remover Spray, Solvent 50

KONTAKT CHEMIE

SOLVENT 50 is a highly effective label solvent for the effortless removal of self adhesive labels, on the basis of natural orange terpenes. It works on the adhesive and quickly and gently dissolves adhesive labels on glass, porcelain, metal, wood, foil and cardboard. SOLVENT 50 also removes sticky residue of any kind, such as tar spots or glue residue from stickers. Check compatability when using on plastics. Not suitable for polystyrene.

Density: 0.74 g/cm³ (20 °C)
Ignition point: < 0 °C
Evaporation rate: 94 (DIN 53170 Ether = 1).

Type	Capacity	PK	Cat. No.
	ml		
Solvent 50, Spray can	200	1	9.412 810
Solvent 50 Super, Spray can, with dosing brush	200	1	6.270 569

Bunsen Burner, Labogaz® 206

CAMPINGAZ

For operation with gas cartridge C 206 GLS (Cat.-No.: 6.290 860, 6.261 010). DVGW-authorised.

Weight: 380 g without cartridge
Height: 200 mm with cartridge
Consumption: 55 g/h

Type	PK	Cat. No.
Labogaz® 206	1	9.018 510

Bunsen Burner, Labogaz® 470

CAMPINGAZ

For operation with gas cartridges CV 470 Plus (Cat.-No.: 9.018 512, 6.261 011).

Weight: 380 g without cartridge
Height: 190 mm with cartridge
Consumption: 55 g/h

Type	PK	Cat. No.
Labogaz® 470	1	9.018 511

Gas Cartridges

CAMPINGAZ

6.290 860   9.018 512

C 206 GLS pierceable cartridge
Piercing cartridge with integrated gas lock system according to EN 417: 2012. For bunsen burner without safety valve. For bunsen burners Labogaz® 206.

CV470 Plus valve cartridge
With safety valve. For bunsen burner Labogaz® 470.

Gas ratio 80/20 Butane/Propane.

Safety valve allows removal of partially used valve gas cartidges.

Type	Height	Capacity	PK	Cat. No.
	mm	g		
C 206 GLS	90	190	5	6.290 860
C 206 GLS	90	190	36	6.261 010
CV 470 Plus	140	450	1	9.018 512
CV 470 Plus	140	450	12	6.261 011

LLG-Microbiological Media, dehydrated

Media for bacteria
Luria Bertani (Miller):
- Standard high salt content media for *E. coli* cultivation
- Ideal for plasmid preparation
- Available also as granulated media

Luria Bertani (Lennox):
- Standard medium with low salt content for the cultivation of *E. coli*
- Ideal for cultivating recombinant E.coli strains

Terrific Broth:
- Rich content media for the high density cultivation of *E. coli*
- Ideal for protein expression and plasmid preparation
- Available also as granulated media

2xYT Broth:
- Nutritive medium for the cultivation of recombinant *E. coli* strains and for the growth of filamentous bacteriophages

Agar
Bact. Agar.:
- High quality agar used for the preparation of culture media and other bacteriological applications

Luria Bertani Agar (Miller):
- Standard Agar based on Luria Bertani (Miller) media with high salt content
- Ideal for growth and maintaining especially of *E. coli* strains used in molecular microbiology procedures

Luria Bertani Agar (Lennox):
- Standard Agar based on Luria Bertani (Lennox) media with low salt content
- Ideal for growth and maintaining especially of recombinant *E. coli* strains

Media for yeasts
YPD-Broth:
- Standard medium for the cultivation of *Saccharomyces cerevisiae* and other yeasts

Media components
Yeast Extract:
- Concentrate of the water-soluble portion of autolyzed *Saccharomyces cerevisiae* cells
- Non-animal product, used widely for non-animal formulations of bacterial, fungal, mammalian and insect cell culture.

Tryptone:
- Pancreatic digest, tryptone from casein
- Excellent nutrient for use in culture media for producing antibiotics, toxins, enzymes and other biological products

Casein Peptone:
- Pancreatic digest, peptone from casein
- Ideal for use in fermentation applications and microbiological culture media

The safety data sheets of these products are available under www.llg-labware.com/en/zertifikate.

Powder and Granulates

Description	Capacity	PK	Cat. No.
	g		
Luria Bertani (Miller) Powder	500	1	6.271 000
Luria Bertani (Lennox) Powder	500	1	6.271 010
Terrific Broth Powder	500	1	6.271 007
2xYT Broth Powder	500	1	6.271 001
Bact. Agar Powder	500	1	6.271 003
Luria Bertani Agar (Miller) Powder	500	1	6.271 009
Luria Bertani Agar (Lennox) Powder	500	1	6.271 008
YPD Broth Powder	500	1	6.271 002
Yeast Extract Powder	500	1	6.271 004
Tryptone Powder	500	1	6.271 005
Casein Peptone Powder	500	1	6.271 011

Disposable Culture Tubes, soda-lime glass, with screw cap

From Soda-lime glass. With DIN thread and PP1 screw cap.

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

LLG-Petridishes, PS

• **Top Quality**
• **Super Price**

Made of high quality optical clear polystyrene. Produced under aseptic conditions in an ISO 6 cleanroom.
- Stable thickness to prevent any deformations while using
- Stackable
- With or without vents
- Aseptic (90 mm diam.) or beta irradiated sterile versions (all sizes)
- Contact plate with counting grid
- Packed in sleeves á 10 dishes or 20 dishes (90 mm diam. dishes)

Ext. diam. mm	Description	Height approx. mm	PK	Cat. No.
90	with triple vents, aseptic	16	480	6.285 823
90	without vents, aseptic	16	480	6.285 824
90	with triple vents, sterile	16	480	6.285 816
90	without vents, sterile	16	480	6.285 817
60	with triple vents, sterile	14	1000	6.285 818
60	without vents, sterile	14	1000	6.285 819
150	with triple vents, sterile	19	180	6.285 822
55	contact plate, sterile	17	1000	6.285 821

Gel Electrophoresis Tank MultiSUB Mini DUO

CS Cleaver Scientific Ltd

Gel Electrophoresis Tank MultiSUB Midi DUO

CS Cleaver Scientific Ltd

⚠ **Top Price**

The MultiSUB Mini DUO is the smallest unit in the range, designed for low to medium numbers of samples. The cost-effective small gel size does not compromise versatility as two tray options are available: 7 x 7 cm and 7 x 10 cm. Easy preparation up to 16 samples. Simply by altering the gel tray or comb, this compact unit is capable of resolving up to 64 different samples, prepping 1 ml of sample or separating sample bands over a distance of 9 cm.

With gel tray options of 10 x 7 cm and 10 x 10 cm, the MultiSUB Midi DUO has been designed for routine horizontal gel electrophoresis. Extending only the width of this unit allows more samples to be resolved per gel, than the MultiSUB Mini, without a significant increase in buffer or gel volumes. A maximum of 100 samples per gel can be resolved making this unit ideal for those routinely checking medium numbers of samples over short to medium gel run lengths.

Scope of delivery:
MultiSUB Mini DUO: 7 x 7 cm and 7 x 10 cm UV Tray, 2 x 8 sample combs.
With additional loading guides and dams.

Scope of delivery:
MultiSUB Midi DUO: 10 x 7 cm + 10 x 10 cm UV tray, 2 x 16 sample combs
With additional loading tank guides and dams.

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

Specifications

Gel dimensions (W x Ll):	10 x 7 cm and 10 x 10 cm
Unit dimensions (W x L x H):	22 x 12.5 x 9 cm
Max. sample capacity:	10 x 7 cm tray, 50 samples
	10 x 10 cm tray, 100 samples
Buffer volume:	300 ml

Description	Thickness mm	Sample volume µl	PK	Cat. No.
MultiSUB Mini DUO			1	7.920 043
Comb 8 sample	1,50	37	1	6.227 144
Comb 8 sample	1,00	25	1	9.584 655
Comb 12 sample MC	1,00	14	1	6.232 523
Comb 12 sample MC	1,50	20	1	6.233 617
Comb 16 sample	1,00	10	1	6.227 253
Comb 16 sample	1,50	15	1	9.584 656
MC = Multichannel compatible.				

Description	Thickness mm	Sample volume µl	PK	Cat. No.
MultiSUB Midi DUO			1	6.238 115
Comb 8 sample	1,00	41	1	9.584 657
Comb 10 sample MC	1,00	27	1	9.584 658
Comb 12 sample	1,00	23	1	9.584 659
Comb 16 sample	1,00	16	1	9.584 660
Comb 20 sample MC	1,00	14	1	9.584 661
Comb 25 sample	1,00	10	1	9.584 662
MC = Multichannel compatible.				

Power Supply NanoPAC-300P Mini for Gel Electrophoresis Tanks

Cleaver Scientific Ltd

Ideal for Electrophoresis Chambers, e.g. Cleaver Scientific MultiSUB Systems

The NanoPAC-300 is capable of running all Cleaver Scientific horizontal multiSUB™ systems and vertical omniPAGE mini gel systems.

- Maximum constant current output of 400mA
- Simple two step feature to set a programmable change in voltage, current and time during the run
- Constant voltage up to 300 V
- Adjustable in 1 V and 1mA 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		PK	Cat. No.
	W			
NanoPAC-300P Mini	60		1	6.272 711

UV Lamps

- Filtered and unfiltered(*) UV lamps with different wave lengths and power levels for a broad range of applications
- Models with wave length selector suited for multiple applications
- Electronic ballast (ECG), flicker-free, low-maintenance

Please order lamp holder separately.

VILBER

Type	Description	Size	Wave-length	Power		PK	Cat. No.
		mm	nm	W			
BVL-6.LC	wavelength selector	145 x 48	365 / 254	1 x 6		1	9.971 918
BVL-8.LM	wavelength selector	220 x 48	365 / 312	1 x 8		1	9.971 937
BVL-115.L	Single wavelength	295 x 66	365	1 x 15		1	9.971 936
BVL-208.G*	UV sterilization lamp	230 x 70	254	2 x 8		1	9.971 935
BVL-215.G*	UV sterilization lamp	495 x 120	254	2 x 15		1	9.971 915

Lamp Holder for UV lamps

VILBER

Type	For Type	PK	Cat. No.
SVL-6	BVL-6, BVL-8, BVL-208.G	1	9.971 921
SVL-30	BVL-115, BVL-215	1	9.971 922

Disc Rotator LLG-uni*LOOPMIX* 2

Analogue Disc rotator for gentle and effective sample mixing. Suitable for all biological samples. With easily interchangeable clamps that allow a **quick cleaning** of the rotator.
For a maximum of 48 x 1.5 ml, 16 x 5 or 15 ml, 8 x 50 ml tubes. Also for parallel use of different sizes, can be equipped individually.

- Variable speed 0 - 80 rpm
- Compact design
- Housing easy to clean
- Non-slip, adjustable screw feet

Scope of delivery: Disc rotator incl. 12 clamps each for 2 ml, 15 ml and 50 ml tubes

Flexible Feeding of Different Vessel Types

Specifications

Type of movement:	rotating
Variable speed:	0 - 80 rpm
Rotation angle of disc:	360°
Permissible shaking weight (incl. attachment):	2 kg
rel. Moisture:	up to max 80 %
Working temp.:	+ 5 - 40 °C
Motor rating input/output:	20 W
Dimensions (W x D x H):	220 x 300 x 310 mm
Power supply:	100 - 240 V, 50/60 Hz
Protection class:	IP 21

Type	PK	Cat. No.
LLG-uni*LOOPMIX* 2 with EU-plug	1	6.263 665

LLG-Centrifuge Tubes economy, PP

- With flat caps, PE
- With conical bottom (15 and 50 ml) or with self-standing bottom (50 ml).
- Easy-to-read black volume graduations
- With a large frosted writing area
- Engraved graduation at the conical bottom of each tube
- Max rotate speed up to 12.000 x g for conical bottom tubes and 6.000 x g for self-standing tubes
- Autoclavable at 121 °C and freezable to -80 °C
- Leak-proof
- DNAse and RNAase free, aseptically
- Bulk packed

• Leak-Proof
• DNAse and RNAse free

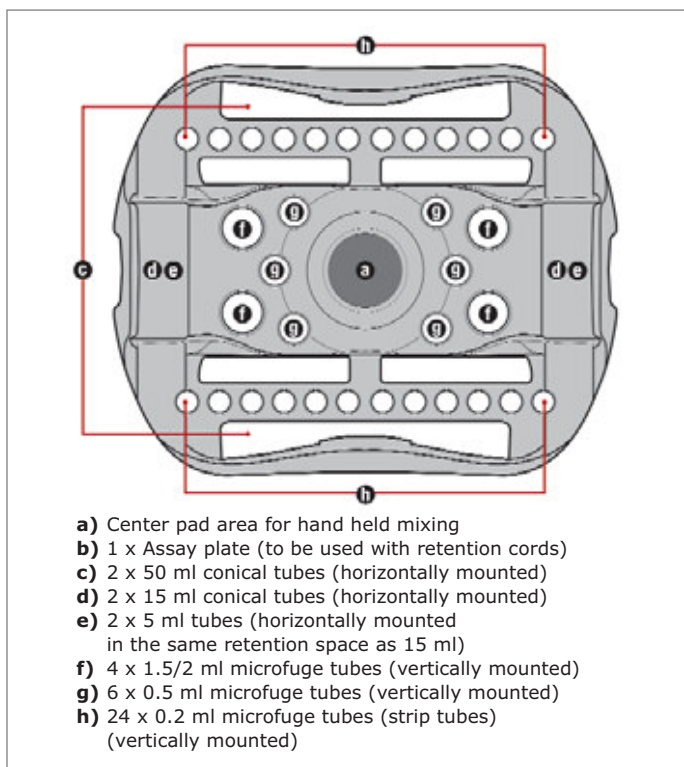| Form	Capacity	Height		PK	Cat. No.
	ml	mm			
conical	15	119,6		500	6.270 403
conical	50	113,9		500	6.270 404
with rim	50	116,5		500	6.270 405

Vortexer LLG-uni*TEXER* with Universal Attachment

One Head - Multiple Uses

Vortexer with single carrier head, accommodating the most popular consumables and tubes:
for 1 x assay plate, 2 x 50 ml conical tubes, 2 x 15 ml conical tubes, 2 x 5 ml conical tubes, 4 x 1.5/2 ml microcentrifuge tubes, 6 x 0.5 ml and 24 x 0.2 ml microcentrifuge tubes.

- Touch function for short-term operation
- Very easy to clean
- Elastomeric feet ensure excellent stability on the bench
- Modern design
- Robust housing made of ABS

Specifications

Type of movement:	orbital/vortex
Orbital diameter:	3.7 mm
Speed:	1000, 2000 und 3000 rpm
Dimensions (W x D x H):	173 x 198 x 198 mm
Weight:	3.8 kg
Power supply:	220 V, 50/60 Hz
Protection class:	IP 20

Type	PK	Cat. No.
LLG-uni*TEXER*	1	6.261 826

- **One Cap for Many Tubes & Vessels**
- **Touch- and Permanent Operation**
- **3 Speeds Selectable**

a) Center pad area for hand held mixing
b) 1 x Assay plate (to be used with retention cords)
c) 2 x 50 ml conical tubes (horizontally mounted)
d) 2 x 15 ml conical tubes (horizontally mounted)
e) 2 x 5 ml tubes (horizontally mounted in the same retention space as 15 ml)
f) 4 x 1.5/2 ml microfuge tubes (vertically mounted)
g) 6 x 0.5 ml microfuge tubes (vertically mounted)
h) 24 x 0.2 ml microfuge tubes (strip tubes) (vertically mounted)

LLG-Test Tube Racks, wire/nylon

White nylon-coated wire. Opening size 18 x 18 mm
(6.286 416 = 30 x 30 mm)

Length	Width	Height	Array	PK	Cat. No.
mm	mm	mm			
130	54	70	2 x 6	1	6.286 410
248	55	70	2 x 12	1	6.286 411
248	73	70	3 x 12	1	6.286 412
130	95	70	4 x 6	1	6.286 413
248	94	70	4 x 12	1	6.286 414
215	208	70	10 x 10	1	6.286 415
235	85	80	6 x 2	1	6.286 416

Wipes, Wypall*L20/L30

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

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

Width	Length	Package contents	Colour	Type	PK	Cat. No.
mm	mm					
235	380	1 roll x 500 wipes	blue	L20	1	9.413 054
330	380	1 roll x 500 wipes	blue	L20	1	9.413 044
205	380	6 rolls x 300 wipes	white	L20	6	9.413 091
330	380	1 roll x 750 wipes	blue	L30	1	9.413 046

Wipes Multiclean®, 3-ply

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

Width	Length	Weight	Package contents	PK	Cat. No.
mm	mm	g / m²			
220	380	60	2 rolls with 500 tears	2	7.618 013
380	380	54	2 rolls with 500 tears	2	7.618 212
360	360	54	Roll with 1000 tears	1	7.671 903

Multitex® Roll Ultra z 70, white, disposable tissues

The high-quality viscose fleece with textile characteristics is suitable for wet and dry cleaning tasks, thanks to its incredible strength. The cloths are very soft and yet lint-free, they can absorb large amounts of liquid and remain tear-resistant, they are solvent-resistant and they meet food safety requirements. Silicone free.

Width	Length	Thickness	Weight	Package contents	PK	Cat. No.
mm	mm	mm	g / m²			
410	380	0.36	80	roll with 500 tears	1	6.266 675

Unitex® Roll, turquoise, disposable Tissues

Unitex® cleaning cloth from cellulose and polyester fibers.

- Without binders, chemicals or adhesives
- Resistant to solvents and silicone free
- Particularly tear-resistant and lintfree
- Useable dry and wet, high absorption capacity
- Excellent for cleaning and degreasing surface

Width	Length	Thickness	Weight	Package contents	PK	Cat. No.
mm	mm	mm	g / m²			
390	325	0.28	68	roll with 500 tears	1	6.266 677

Roll Holders

With waste bag holder for rolls up to 42 cm width.

Description	PK	Cat. No.
Floor stand	1	6.266 990
Wall bracket	1	6.266 991

LLG-Absorbent, Oil and Chemical Binder, granules

- **Universally Applicable**
- **Dust-Free Granules**

Universal chemical and oil binder for all liquids, also for solvents. Very high absorption capacity (up to 1:75 of aqueous solutions).

Almost dust-free granules with colour indicator:
1 colour changes to yellow in contact with acids,
2 to red in contact with alkalis.

Disposal according to the pollutant recorded.

Capacity	Package	PK	Cat. No.
kg			
0.7	Laboratory bottle	1	6.283 036
1.5	Square handle bottle	1	6.283 037
5.0	Bucket	1	6.270 479

Chemical Sorbents Emergency Kits

9.264 104

9.264 105

Each kit has the optimal combination of different sorbents. Ready to use. Quick and safe aid for accidental spillages of almost all hazardous liquids.

Type	Dimensions	Absorption*	Capacity	PK	Cat. No.
SK5	7 x 40 x 28 cm	approx. 5 l	10 wipes, 1 pillow, 1 waste bag	1	9.264 104
SK26	40 x 63 cm	approx. 26 l	10 wipes, 5 pillow, 5 mini socks, 1 waste bag	1	9.264 105

*Capacity per kit

Waste Disposal Unit Standard, PE-HD

Complete Set

Disposal unit for liquid waste, PE-HD, useful for the collection of solvent and sample waste. With funnel, hinged lid and removable sieve to collect magnetic stirrers and residues. The sieve is detachable for cleaning. Delivered with container and funnel, ready to use.

Capacity	Dimensions (W x D x H)	PK	Cat. No.
L	mm		
2.5	115 x 150 x 305	1	9.139 892
5.0	150 x 195 x 345	1	9.139 893
10.0	190 x 230 x 395	1	9.139 894

Chemical Sorbents

9.264 102

9.264 101

9.264 103

The sorbents have a high performance. Due to their new microfibre structure, they provide very high absorbing capacities. The light and absorbent material is easy to use and committed to absorb quickly and store the liquid. The absorbed liquid can be extracted, to be used again or to be disposed of separately. The optimal combination of features such as lightweight, low volume, very high absorbance, easy handling and low sorbent disposal weight, significantly reduce disposal costs in comparison to conventional binding materials. To reduce the final waste content, the used sorbets can be burnt.

Can be used to absorb a variety of lab chemicals:
- acids, such as acetic acid, hydrofluoric acid, phosphoric acid, nitric acid, hydrochloric acid, sulphuric acid
- alkalis, such as sodium hydroxide, potassium hydroxide
- hydrazine: N_2H_4
- hydrogen peroxide

Type	Dimensions (W x D)	Absorption*	PK	Cat. No.
PF 2001 Multi-Format	1520 cm x 12 cm	39 l	1	9.264 101
P 110 Wipes	33 cm x 28 cm	0.25 l	50	9.264 102
P 300 Pillows	28 cm x 18 cm	2 l	16	9.264 103

*Capacity per piece

Erlenmeyer Flasks, Borosilicate glass 3.3, narrow neck

DURAN WHEATON KIMBLE
Excellence in your hands.

DIN ISO 1773. With graduations and beaded rim.

Capacity	Neck diam.	Bottom diam.	Height	PK	Cat. No.
ml	mm	mm	mm		
25	22	42	70	10	9.141 079
50	22	51	90	10	9.141 080
100	22	64	105	10	9.141 081
200	34	79	135	10	9.141 085
250	34	85	145	10	9.141 082
300	34	87	160	10	9.141 086
500	34	105	180	10	9.141 083
1000	42	131	220	10	9.141 084
3000	50	187	310	1	6.270 118

LAB Rings, lead

Heathrow Scientific LLC

LAB-Rings to stabilise glassware and plasticware on shakers or to immerse in water baths. Vinyl-coated lead rings will not mark or scratch benchtops and labware.

Type	For flasks	Int. diam.	PK	Cat. No.
	ml	mm		
O-Shape	125 - 500	48	1	6.243 010
O-Shape	250 - 1000	51	1	6.242 742
O-Shape	500 - 2000	57	1	6.243 011
O-Shape	1000 - 4000	70	1	7.054 161
C-Shape	125 - 500	42	1	9.149 902
C-Shape	250 - 1000	51	1	9.149 905
C-Shape	500 - 2000	54	1	9.149 906
C-Shape	1000 - 4000	66	1	9.149 907

LLG-Mortars, porcelain

LLG LABWARE

Description	Capacity	Ext. diam.	Height	DIN	PK	Cat. No.
	ml	mm	mm			
rough inside	70	63	41	12906	1	6.227 149
rough inside	160	90	56	12906	1	6.243 865
rough inside	400	125	71	12906	1	9.164 413

LLG-Pestles, porcelain

Description	Head diam.	Length	DIN	PK	Cat. No.
	mm	mm			
rough	24	115	12906	1	9.164 420
rough	30	135	12906	1	6.232 574
rough	36	150	12906	1	9.164 421

LLG-Sample Containers, PP, Heavy Duty, with screw cap, PE-HD

LLG LABWARE

Ideal for collection, transportation and storage.
- Ideally suited for histological samples
- Container made of non-cytotoxic polypropylene
- Very solid quality
- Top and bottom gripping assures easy opening and closing when wearing gloves
- Half-transparency containers
- With graduation and label
- Leak proof

Capacity	Diam. with cap	Height	Grad. up to	PK	Cat. No.
ml	mm	mm	ml		
30	37	42	15	1000	6.265 649
60	50	40	30	500	6.265 650
80	50	60	60	500	6.265 651
100	50	77	70	300	6.265 652
140	58	80	120	300	6.265 653
250	97	58	150	154	6.265 654
500	97	112	350	132	6.265 655
1000	120	140	700	64	6.265 656

Volumetric Trapezoidal flasks, DURAN®, class A, blue graduation

HIRSCHMANN®

IN (TD) calibrated. With dated batch identification. Declaration of conformity acc. to DIN 12600. NS ground with poly stopper. Ring mark and graduation in high contrasting blue enamel. According to DIN EN ISO 1042.

BIG PACK

Capacity	Tolerance	Height	Joint size (NS)	PK	Cat. No.
ml	± ml	mm			
1	0.025	60	7/16	2	6.290 843
2	0.025	70	7/16	2	6.290 844
5	0.025	70	7/16	2	6.290 845
5*	0.04	70	10/19	2	6.290 846
10	0.025	90	7/16	2	6.290 847
10*	0.04	90	10/19	2	6.290 848
20	0.04	110	10/19	2	6.290 849
25	0.04	110	10/19	2	6.290 850
50	0.06	140	12/21	2	6.290 851

* wide neck.

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

BRAND

With spout, tall form. BLAUBRAND®. To DIN EN ISO 4788. DE-M marking with works certified batch number. With spout and hexagonal foot. Graduations and inscriptions in highly contrasting blue enamel. Calibrated to contain (IN). All BLAUBRAND® cylinders are delivered with batch number and batch certificate.
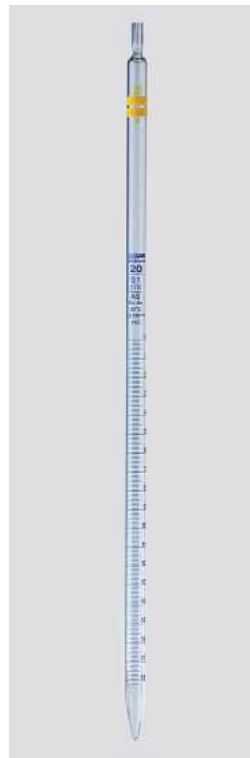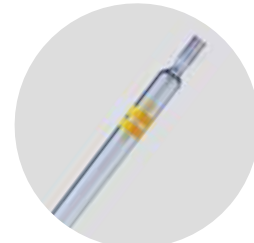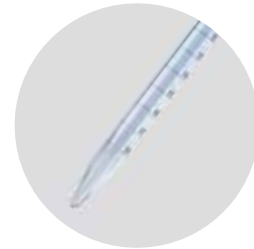
BIG PACK

Capacity	Grad.	Tolerance	Height	PK	Cat. No.
ml	ml	± ml	mm		
10	0.2	0.10	140	2	6.290 836
25	0.5	0.25	170	2	6.290 837
50	1	0,5	200	2	6.290 838
100	1	0,5	260	2	6.290 839
250	2	1,0	335	2	6.290 840
500	5	2,5	365	2	6.290 841
1000	10	5,0	465	2	6.290 842

Graduated Pipettes, soda glass, class AS, blue graduation, type 3

ISOLAB Laborgeräte GmbH

Soda glass. Conformity-certified. With batch date identification. DIN EN ISO 835, DIN 12699 and BS700 - 1583. Calibrated to deliver (EX). Ring marks and graduations in permanent blue enamel.
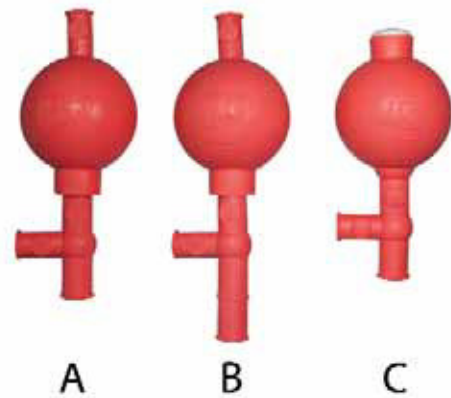
BIG PACK

Volume	Graduations	Tolerance	Length	PK	Cat. No.
ml	ml	± ml	mm		
1	0.01	0.007	360	12	6.290 861
2	0.02	0.010	360	12	6.290 862
5	0.05	0.030	360	12	6.290 863
10	0.1	0.050	360	12	6.290 864
20	0.1	0.100	450	12	6.290 865
25	0.1	0.100	450	12	6.290 866
50	0.1	0.200	720	12	6.290 867

LLG-Safety Pipette Bulb, rubber, red

LLG LABWARE

A   B   C

Chemically resistant rubber. With valves for suction, emptying and air release, controlled by thumb and finger pressure.

Type	Figure	PK	Cat. No.
LLG-Safety pipette bulb, normal	A	1	6.270 265
LLG-Safety pipette bulb, universal	B	1	6.270 266
LLG-Safety pipette bulb, "Flip"	C	1	6.270 267

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e-mail: info@kefo.si
www.kefo.si

partner of the
LLG
Lab Logistics Group

LABORTOPS

! PROMO !

Dispenser Tips ritips® including LLG-uni*DISPENS*

10 x 100 ritips®

Made in Germany

+
For free!

0.05 ml / Standard

1.25 ml / Standard

12.5 ml / Standard

ritter MEDICAL

bioclean® steril

• **Made in Germany in double pack**
• **Perfectly matched Quality**

Complete sets, consisting of 10 x 100 ritips® and a Serial Dispenser LLG-uni*DISPENS*

- Dispensertips ritips®:
- Three sizes, standard and bioclean® (sterile).
- Maximum of safety and repeatability as all tips are individually and mechanically tested.
- Bioclean®: sterile, pyrogen free, DNA-, RNase- and ATP-free.
- A quality certificate per lot can be obtained upon request.

Manual Serial Dispenser LLG-uni*DISPENS*
The ergonomically designed manual dispenser LLG-uni*DISPENS* enables single handed volume selection, loading and dispensing. Due to its light weight it is ideally suited for serial dosing. You can flexibly select your desired dosing volume from 120 dosing programs, to 12 tip sizes and with 10 stroke adjustments. You can view all settings and volumes at a single glance through the viewing window of the manual dispenser. The dispenser can be used with a huge variaty of different dispenser tips. Thanks to a purely mechanical, maintenance-free construction, the manual dispenser is a practical and convenient device for daily laboratory use. 3 years warranty.

Scope of delivery: 1000 ritips®, paked 10 x 100 pcs, plus Serial Dispenser LLG-uni*DISPENS*

Description	PK	Cat. No.
Set of 10 x 100 ritips®, 0.05 ml / standard + LLG-uni*DISPENS*	1	6.272 982
Set of 10 x 100 ritips®, 1.25 ml / standard + LLG-uni*DISPENS*	1	6.272 983
Set of 10 x 100 ritips®, 12.5 ml / standard + LLG-uni*DISPENS*	1	6.272 984
Set of 10 x 100 ritips®, 0.05 ml / bioclean® sterile + LLG-uni*DISPENS*	1	6.272 985
Set of 10 x 100 ritips®, 1.25 ml / bioclean® sterile + LLG-uni*DISPENS*	1	6.272 986
Set of 10 x 100 ritips®, 12.5 ml / bioclean® sterile + LLG-uni*DISPENS*	1	6.272 987