



# 2025 Q4 Labortops

VALID UNTIL 31.12.2025

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PARTNER OF  
**LLG**  
Laboratory Supply Solutions

## Temperature logger, testo 175-H1



2-channel temperature and humidity data logger with external humidity sensor (NTC/capacitive humidity sensor)

- Professional long-term monitoring of temperature and humidity in work and storage rooms

### Specifications

Channels:	2 x internal (stump)
Measurement units:	°C, °F, %r.F., %RH, °C <sub>td</sub> , g/m <sup>3</sup>
Measuring ranges:	
Temperature (NTC):	-20 ... +55 °C
Humidity (capacitive):	0 ... 100% r.h.
Dew point:	-40 ... +50 °C <sub>td</sub>
Operation and storage temperature:	-20 ... +55 °C
Battery type:	3 x AlMn Type AAA or Energizer
IP code:	IP 54
Meas. cycle:	10sec - 24h
Memory:	1 mio. measurement values

Type	PK	Cat. No.	Price
			EUR
testo 175-H1	1	6.242 911	323.00

## Wireless min./max. alarm thermometer type 13090



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

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

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

Temperature range (internal):	0 ... 50 °C
Temperature range (external, wireless):	-40 ... 50 °C
Temperature range (external, cable):	-50 ... 70 °C
Resolution:	0.1 °C
Wireless distance:	50 m (open field), 10 m (refrigerator)

Type	PK	Cat. No.	Price
			EUR
13090	1	6.325 021	71.63

## Digital hand held thermometer TTX 200



For measuring the core temperature with a fixed probe with a cable and a handle.

- Very large display with large figures
- Factory calibration certificate

### Specifications

Temperature range:	-30 ... +199.9 °C
Accuracy:	±0.5 °C (-30 ... +100 °C), otherwise ±1%
Sensor length/diam.:	120 mm/3 mm
Cable length:	600 mm
Working temperature:	-20 ... +60 °C
Dimensions (L x W x H):	127 x 60 x 16 mm (without sensor)
Weight:	approx. 220 g
Power supply:	CR 2032
Protection class:	IP 55

Type	PK	Cat. No.	Price
			EUR
TTX 200	1	6.291 272	110.00

## Combi infrared and insertion thermometer TLC 750i-V2



### Very simple operation

Handy infrared thermometer for non-contact measurement of surface temperature or core temperature with the foldable insertion probe.

- Practical pocket size for daily use
- Backlit display allows reading in dark environment
- Rotating display makes it easy to read the measured value
- Double laser pointer
- HACCP and DIN EN 13485 compliant, incl. calibration certificate
- Waterproof housing (IP 65)



Temperature infrared:	-50 ... 250 °C
Resolution infrared:	0.1 °C
Accuracy sensor:	±0.5 °C (-30 ... 99 °C)
Accuracy infrared:	±1.0 °C (0 ... 65 °C)

Type	PK	Cat. No.	Price
			EUR
TLC 750i-V2	1	6.491 695	127.68

## Multiparameter meters MultiLab® Pro IDS



- 2- or 4-channel device
- No electrode change necessary
- 7" touch screen
- Suitable for IDS electrodes



New

Digital multiparameter meter with up to 4 galvanically isolated measuring channels for pH, ORP, mV, conductivity, oxygen, ISE and turbidity measurements. This allows up to 4 identical or different parameters to be measured simultaneously. Ideal for demanding tasks, even in critical (GxP) areas. The brilliant 7" touch display with special touchscreen glass is resistant to alcohol and disinfectants and can be operated with gloves. Predefined methods, automated documentation, metadata backup and onboard manual simplify handling and optimise the workflow.

- Wireless-ready for Intelligent Digital Sensors (IDS) modules
- Digital sensor recognition
- Wired or wireless sensor connection possible
- Preset and definable buffer sets
- QSC calibration
- AutoRead function
- LIMS ready: easy integration into existing LIMS systems
- Stored metadata is securely transferred via the LAN network
- Data export also as PDF/A, JSON and csv
- Interfaces: 2 x USB-A and 1 x Ethernet
- GxP-compliant

**Scope of supply:**

**MultiLab® Pro 20 IDS S2:** Multiparameter meter with 2 measuring channels, pH electrode SenTix® 980, digital conductivity measuring cell TetraCon® 925, pH buffers STP 4, STP 7 and STP 10 Trace, 3 mol KCl solution, conductivity standard 1413 µS/cm, stand, universal power supply

**MultiLab® Pro 40 IDS S4:** Multiparameter meter with 4 measuring channels, pH electrode SenTix® 980, ORP electrode SenTix® ORP-T 900, digital conductivity measuring cell TetraCon® 925, digital oxygen sensor FDO® 925, pH buffers STP 4, STP 7 and STP 10 Trace, 3 mol KCl solution, conductivity standard 1413 µS/cm, stand, universal power supply

Type	Channels	PK	Cat. No.	Price
				EUR
MultiLab® Pro 20 IDS S2	2	1	4.712 712	3,553.00
MultiLab® Pro 40 IDS S4	4	1	4.712 715	5,783.00

## pH buffer solutions at 20 °C/25 °C, certified reference material (CRM)



Reagecon

Certified reference material according to ISO 17034. The pH buffer solutions are colour-coded, and the uncertainty of measurement of  $\pm 0.01$  pH was tested at 20 °C/25 °C. Supplied with a detailed certification report which includes traceability to NIST.

pH-value	Colour	Capacity	PK	Cat. No.	Price
		ml			EUR
4.00 at 20 °C	red	500	1	4.695 385	34.20
7.00 at 20 °C	yellow	500	1	4.695 386	34.20
10.00 at 20 °C	colourless	500	1	6.493 481	44.77
4.00 at 25 °C	red	500	1	4.695 403	35.29
7.00 at 25 °C	yellow	500	1	4.695 404	35.29
10.00 at 25 °C	colourless	500	1	6.493 482	44.77

## LLG-Universal Indicator strips "Premium", in vial with snap lid



Flip-top vial is easy to open and close with one hand. The new LLG pH strips offer the utmost in convenience and ease of use in laboratory-grade testing. With a single colour match and a 12 mm reagent pad, these universal pH strips (0.0-14.0) belong in every lab.

Range	Package contents	PK	Cat. No.	Price
				EUR
pH				
0 ... 14	100 strips per vial with snap lid	100	9.129 808	12.61

## LLG filter papers for qualitative analyses



### Medium fast

- Made from 100% cellulose
- Filtration speed according to DIN 53137

Diam. mm	Filtration time secs.	Pore size µm	PK	Cat. No.	Price EUR
70	88	5 - 13	100	9.045 803	<b>4.16</b>
90	88	5 - 13	100	9.045 804	<b>4.69</b>
110	88	5 - 13	100	9.045 805	<b>5.22</b>
125	88	5 - 13	100	9.045 806	<b>5.47</b>
150	88	5 - 13	100	9.045 807	<b>6.84</b>
185	88	5 - 13	100	9.045 808	<b>8.57</b>
240	88	5 - 13	100	9.045 809	<b>11.43</b>

## Syringeless filters SEPARA



- Quick and easy to use
- Low sample loss



SEPARA integrates in one single device auto-sampler vial, filtration membrane, plunger, and cap/septa. The single step filtering process is efficient and saves time. PP vial with Ø 12 x 33 mm, Filtering capacity 0.48 ml, dead volume <30 µl, maximum operating temperature 50 °C

Membrane	Pore size µm	Colour	PK	Cat. No.	Price EUR
Nylon	0.22	light blue	100	6.287 339	<b>133.70</b>
PTFE	0.22	pink	100	6.287 340	<b>133.70</b>
Regen. Cellulose	0.22	grey	100	6.287 341	<b>133.70</b>
PVDF	0.22	yellow	100	6.287 342	<b>133.70</b>
PES	0.22	light green	100	6.287 343	<b>133.70</b>
Nylon	0.45	blue	100	6.287 344	<b>133.70</b>
PTFE	0.45	red	100	6.287 345	<b>133.70</b>
Regen. Cellulose	0.45	black	100	6.287 346	<b>133.70</b>
PVDF	0.45	orange	100	6.287 347	<b>133.70</b>
PES	0.45	green	100	6.287 348	<b>133.70</b>

## Qualitative Filters for beer analysis



Suitable for analytical methods in breweries to filter and analyse, based upon recommended procedures of the EBC (European Brewery Convention).

- Medium fast
- Grained surface

### Further sizes on request.

Type	Diam. mm	Filtration time acc. to Herzberg s	PK	Cat. No.	Price EUR
Folded filter	185	110	100	4.006 207	<b>42.00</b>
Folded filter	240	110	100	4.006 208	<b>47.60</b>
Folded filter	320	110	100	4.006 209	<b>54.00</b>

## Funnels, DURAN®



DIN ISO 4798. With short stem. Glass Type I/neutral glass as per USP, EP and JP. Autoclavable.

Diam. mm	For filter paper diam. mm	Height mm	DIN	PK	Cat. No.	Price EUR
35	45 - 55	60	4798	1	9.251 123	<b>12.91</b>
45	55 - 70	80		1	9.251 128	<b>13.38</b>
55	70 - 90	95	4798	1	9.251 133	<b>19.68</b>
70	110 - 125	125		1	9.251 138	<b>19.44</b>
80	125 - 150	140		1	9.251 141	<b>20.58</b>
100	150 - 185	180	4798	1	9.251 146	<b>22.39</b>
120	185 - 240	210		1	9.251 023	<b>27.89</b>
150	240 - 270	265	4798	1	9.251 157	<b>40.74</b>



## Separating funnels, Squibb-pattern, borosilicate glass 3.3

**ISOLAB**  
Laborgeräte GmbH



Supplied with a PTFE stopcock. With a PE conical stopper.

- ISO 4800
- NS necks according to DIN 12242 standard

Description	Capacity	Bore	NS	PK	Cat. No.	Price
	ml	mm				EUR
Graduated	50	2.5	19/26	1	6.236 317	<b>51.00</b>
Graduated	100	2.5	19/26	1	6.236 318	<b>52.30</b>
Graduated	250	4.0	29/32	1	6.236 319	<b>59.10</b>
Graduated	500	4.0	29/32	1	6.236 320	<b>64.50</b>
Graduated	1000	6.0	29/32	1	6.236 321	<b>99.00</b>
Graduated	2000	6.0	29/32	1	6.240 412	<b>139.30</b>

## Stand for separating funnel, PP

**ISOLAB**  
Laborgeräte GmbH



Suitable to hold all types of laboratory funnels and also separatory funnels with diameter from 60 up to 150 mm. Two tapered wedges are provided to ensure firm grip.

Description	PK	Cat. No.	Price
			EUR
Separating funnel holder	1	4.672 109	<b>14.30</b>

## Disposable culture tubes, soda-lime glass, with screw cap

**DURAN WHEATON KIMBLE**  
Excellence in your hands



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

Capacity	Outer diam.	Height	Wall thickness	DIN-Thread	PK	Cat. No.	Price
ml	mm	mm	mm	GL			EUR
6	12	100	1	14	100	7.021 547	<b>56.66</b>
12	16	100	1	18	100	7.021 548	<b>60.71</b>
22	16	160	1	18	100	7.021 549	<b>74.64</b>
32	18	180	1	18	100	7.021 550	<b>87.08</b>

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

**LLG**  
121 °C

**LLG**  
LABWARE



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

Nominal capacity	Dimensions (dia. x H)	Ground size	PK	Cat. No.	Price
ml	mm	NS			EUR
50	51 x 85	29/32	2	4.686 119	<b>9.00</b>
100	64 x 103	14/23	2	4.686 120	<b>10.80</b>
100	64 x 103	29/32	2	4.686 121	<b>10.80</b>
250	85 x 130	29/32	2	4.686 122	<b>12.44</b>
500	105 x 160	29/32	2	4.686 123	<b>16.68</b>
1000	131 x 187	29/32	1	4.686 124	<b>12.17</b>
2000	166 x 230	29/32	1	4.686 125	<b>20.48</b>

## Petri dishes, DUROPLAN®, borosilicate glass 3.3

**DURAN WHEATON KIMBLE**  
Excellence in your hands



With lid. DURAN®. Made of DURAN® borosilicate glass 3.3. The base and lid are completely flat on both the outside and inside, free of bubbles and cords. The glass is type 1/neutral glass, as specified by USP/EP, and JP. Autoclavable. DIN 13132.

Ext. diam.	Height	PK	Cat. No.	Price
mm	mm			EUR
60	20	1	9.170 141	<b>15.29</b>
80	20	1	9.170 143	<b>15.73</b>
100	15	1	9.170 146	<b>16.61</b>
100	20	1	9.170 148	<b>16.41</b>
120	20	1	9.170 151	<b>17.65</b>
150	30	1	9.170 153	<b>27.32</b>



## Sampler Tubes, V4A stainless steel



Sampler for free flowing, bulk goods up to approx. 1cm diameter.

- also for coarse-grained bulk goods
- corresponds to ISTA standard for seed lengths of 10 mm and 5 mm

Diam.	Length	PK	Cat. No.	Price
mm	cm			EUR
40	40	1	6.200 394	<b>135.85</b>
40	80	1	6.204 492	<b>177.00</b>

## Chemistry scoop, PP, with rod handle



For aggressive liquids, complete with strong handle made of polypropylene.

Capacity	Stem diam.	Stem	PK	Cat. No.	Price
ml	mm	mm			EUR
250	20	1000	1	9.303 840	<b>72.10</b>
600	20	1000	1	9.303 842	<b>74.70</b>
1000	20	1000	1	9.303 844	<b>76.55</b>

## Disposable spatulas LaboPlast®/SteriPlast®, PS



The sample spatula is ideal for sampling powders, granulates and pastes.

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



Type	Sterile	Length	Imm. depth	PK	Cat. No.	Price
		mm	mm			EUR
LaboPlast®	-	263	150	10	6.265 035	<b>16.35</b>
SteriPlast®	+	263	150	10	6.265 047	<b>18.10</b>

## Disposable samplers for solids, HDPE



For contamination-free samples. They are cleanroom-manufactured and individually packed. Gamma-sterilised versions are also available.

For direct removal and filling of free-flowing powders and small-grain granulates.

Type	Description	Length	PK	Cat. No.	Price
		mm			EUR
DispoLance	sterile	300	20	6.282 459	<b>134.50</b>
DispoLance	non-sterile	300	20	6.282 458	<b>115.10</b>
DispoLance	sterile	500	20	6.282 461	<b>158.60</b>
DispoLance	non-sterile	500	20	6.282 460	<b>138.70</b>

## Sampling Dippers DispoLadle, HDPE

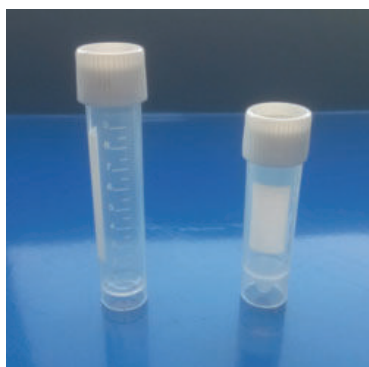


The scaled scoop with embossing can be used for measuring. It shows contents in increments of 10 ml, up to 200 ml.

- Cleanroom manufactured
- Individually packaged
- Optionally sterilised by gamma rays

Description	Capacity	Length	PK	Cat. No.	Price
	ml	mm			EUR
Standard	200	500	20	6.284 537	<b>113.95</b>
Sterile	200	500	20	6.284 538	<b>148.55</b>
Standard	200	1000	20	6.284 539	<b>139.30</b>
Sterile	200	1000	20	6.284 540	<b>198.00</b>

## LLG-Transport tubes, PP, with screw cap



For convenient storage and dispatch of samples.

- Conical bottom
- Free standing
- Printed graduation
- 1 1/4 turn thread design for super fast screwing

Capacity ml	Outer diam. mm	Height with cap mm	PK	Cat. No.	Price EUR
5	16	60	100	6.265 667	<b>13.20</b>
10	16	80	100	6.265 668	<b>13.20</b>

## Sample bags Whirl-Pak®, PE, sterile



Nasco

Whirl-Pak® bags are sterile polyethylene laboratory sample bags used to transport samples for biological testing and other applications. Available with or without write-on label. With integrated wire closing system. Temperature range: -210 to 82 °C.

Nominal capacity ml	Dimensions (D x W) mm	Description	PK	Cat. No.	Price EUR
58	75 x 125	with write-on label	500	7.058 005	<b>116.00</b>
118	75 x 185	with write-on label	500	7.077 212	<b>118.00</b>
532	115 x 230	with write-on label	500	7.058 120	<b>169.00</b>
710	150 x 230	with write-on label	500	6.242 083	<b>223.00</b>
2721	254 x 380	with write-on label	250	6.266 304	<b>329.00</b>
3637	254 x 508	with write-on label	250	6.266 305	<b>395.00</b>
5441	380 x 508	with write-on label	100	6.257 989	<b>251.00</b>
58	75 x 125	without write-on label	500	6.091 055	<b>109.00</b>
118	75 x 185	without write-on label	500	9.404 234	<b>116.00</b>
207	95 x 180	without write-on label	500	7.981 345	<b>145.00</b>
532	115 x 230	without write-on label	500	9.404 235	<b>159.00</b>
710	150 x 230	without write-on label	500	6.228 639	<b>206.00</b>
1065	125 x 380	without write-on label	500	9.404 236	<b>253.00</b>
1242	150 x 380	without write-on label	500	6.266 302	<b>297.00</b>
2041	190 x 380	without write-on label	500	6.305 117	<b>339.00</b>

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



White, with screwed-on lid.  
For storage or transport of samples.

Nominal capacity ml	Ø with Cover mm	Height mm	PK	Cat. No.	Price EUR
30	58	19	10	9.402 310	<b>9.77</b>
75	58	47	10	9.402 313	<b>11.90</b>
310	81	81	10	9.402 318	<b>14.25</b>
600	119	67	10	9.402 321	<b>23.63</b>
1250	119	130	5	9.402 324	<b>17.04</b>

## Water sample bottles, PET



With and without sodium thiosulfate

ISOLAB  
Laborgeräte GmbH



- Sterile
- Leak-proof
- Thick walls
- Crush-resistant corners

Nominal capacity ml	Description	PK	Cat. No.	Price EUR
125	without sodium thiosulphate	180	4.712 663	<b>291.06</b>
250	without sodium thiosulphate	108	4.712 664	<b>217.05</b>
500	without sodium thiosulphate	84	4.712 665	<b>203.74</b>
1000	without sodium thiosulphate	30	4.712 666	<b>108.80</b>
125	without sodium thiosulphate *	130	4.712 667	<b>264.26</b>
250	without sodium thiosulphate *	72	4.712 668	<b>186.28</b>
500	without sodium thiosulphate *	42	4.712 669	<b>146.50</b>
1000	without sodium thiosulphate *	22	4.712 670	<b>111.30</b>
125	with sodium thiosulphate	180	4.712 671	<b>291.06</b>
250	with sodium thiosulphate	108	4.712 672	<b>214.55</b>
500	with sodium thiosulphate	84	4.712 673	<b>201.80</b>
1000	with sodium thiosulphate	30	4.712 674	<b>108.11</b>
125	with sodium thiosulphate *	130	4.712 675	<b>255.26</b>
250	with sodium thiosulphate *	72	4.712 676	<b>172.97</b>
500	with sodium thiosulphate *	42	4.712 677	<b>128.07</b>
1000	with sodium thiosulphate *	22	4.712 678	<b>101.13</b>

\* Individually packed

Melting point apparatus,  
model MP-200D/MP-200D-HR

Cole-Parmer<sup>®</sup>  
an antylla scientific company



MP-200D

Supplied with 100 melting point tubes, open one end.

Specification

Number of samples:	2
Temperature range:	Ambient to 300 °C
Temperature accuracy:	±1.0 °C at 20 °C, ±2.5 °C at 300 °C
Display:	Three digit LED // Four digit LED
Display resolution:	1 °C // 0.1 °C
Display hold facility:	No // Yes
Ramp rates:	20 °C per minute to plateau, 2 °C per minute to melt // 20 °C per minute to plateau, variable between 1 and 10 °C per minute to melt
Dimensions (w x d x h):	160 x 220 x 170 mm
Net weight:	1.8 kg
Electrical supply:	230 V, 50 Hz, 75 W

MP-200D // MP-200D-HR

Type	PK	Cat. No.	Price
			EUR
MP-200D	1	9.950 177	915.00
MP-200D-HR	1	9.830 430	1,510.54

Melting point tubes for MP series

Cole-Parmer<sup>®</sup>  
an antylla scientific company



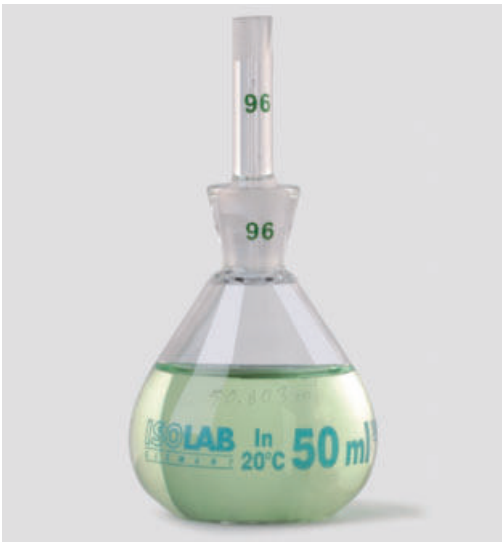
- Antimicrobial coating
- Up to 300 °C



Type	PK	Cat. No.	Price
			EUR
Melting point determination tubes (open on both sides)	100	6.236 492	26.03
Melting point determination tubes (closed at one end)	100	6.803 067	26.03
Melting point determination tubes (closed at both ends)	100	9.950 400	46.72

Pycnometers, Borosilicate glass 3.3,  
calibrated

ISOLAB<sup>®</sup>  
Laborgeräte GmbH



ISO 3507. Individually calibrated to contain (In) to 0.001 ml.  
Net volume capacity is engraved on the body. Each bottle is calibrated  
together with its stopper. In order to differentiate easily, both the body  
and the stopper have the same code numbers printed on them.

Capacity	PK	Cat. No.	Price
ml			EUR
5	1	4.008 327	23.60
10	1	6.241 602	24.00
25	1	4.008 328	24.90
50	1	6.241 603	28.40
100	1	4.008 329	37.50



## Flame Photometer FF-200D-I and FF-200D-R



**Cole-Parmer**  
an antylla scientific company

- Low temperature flame photometer
- Supplied with filters



FF-200D-I

Single channel, low temperature flame photometer for use in industry, medicine and education. Can be operated with propane, butane, natural gas or liquid gas (LPG). With built-in electronic flame failure safety system for operational safety.

- Model FF-200D-I incl. Na, K, Ca, Ba and Li filters
- Model FF-200D-R incl. Na, K and Li filters
- 3 year warranty

**Supplied with:** Na, K, Li filters (model PFP7/C), additionally Ba and Ca filter (model PFP7), connecting hoses and clips, compressor plug, drain trap, fuses and operating/service instructions

### Specifications

Range PFP7: 0 ... 199.9 ppm  
Range PFP7/C: 120 ... 160 ppm Na, 0 ... 10 ppm K

### Limits of detection

Na/K: < 0.2 ppm  
Li: < 0.25 ppm  
Ca: < 15 ppm  
Ba: < 30 ppm  
Reproducibility: < 1% (Coefficient of variation for 20 consecutive samples using 10 ppm Na set to a reading of 50)

Linearity: < 2% (when concentration of 3 ppm Na/K and 5 ppm Li are set to a reading of 100)

Specificity: Interference from Na, K and Li equal in concentration to test element will be < 0.5%

Recorder output: Nominal 1.00 V for a reading of 100.0  
Air: 6 l/min at 1 Kg/cm<sup>2</sup> /14psi (oil and moisture free pressurised air)

Dimensions (W x D x H): 420 x 360 x 300 mm

Weight: 8 kg

Power supply: 190 ... 250 V, 50/60 Hz

Type	PK	Cat. No.	Price
			EUR
FF-200D-I	1	9.309 409	4,758.00
FF-200D-R	1	6.272 846	5,978.00

## Laboratory refractometers Abbemat Essential



**Anton Paar**

- Peltier temperature control
- Preset refractive index and Brix scale



Abbemat 3001

The Abbemat Essential line is budget-friendly with the best build quality and temperature control. All three instruments are suitable for liquids, viscous or solid substances, as well as turbid and dark substances. Fast concentration measurements due to a simplified user interface and predefined methods.

- Precise Peltier temperature control
- Up to 10 methods: refractive index and Brix preset, plus 8 optional methods
- Intuitive 7" Hybrid touchscreen
- Sapphire prism backed by a 25-year warranty

Type	Measuring range	Accuracy	PK	Cat. No.	Price
					EUR
Abbemat 3001	1,33 ... 1,55 nD 0 ... 100 °Brix	±0,0001 nD ±0,05 °Brix	1	4.713 222	4,025.00
Abbemat 3101	1,30 ... 1,66 nD 0 ... 100 °Brix	±0,00004 nD ±0,03 °Brix	1	4.713 223	6,330.00
Abbemat 3201	1,26 ... 1,72 nD 0 ... 100 °Brix	±0,00002 nD ±0,015 °Brix	1	4.713 224	9,200.00

## Standards for Flame photometers

**Reagecon**



Suitable for calibration, control, IQ/OQ and method validation. Compatible with all Flame Photometry Instruments. NIST traceable. HDPE bottles of 500 ml.

Type	Measuring range	PK	Cat. No.	Price
				EUR
Sodium / Potassium	100 / 100 mmol/L	1	4.012 215	119.04
Sodium / Potassium	120 / 2 mmol/L	1	4.012 216	119.04
Sodium / Potassium	140 / 5 mmol/L	1	4.012 217	119.04
Sodium / Potassium	160 / 8 mmol/L	1	4.012 218	119.04
Sodium / Potassium	160 / 80 mmol/L	1	4.012 219	119.04
Rinse solution	-	1	6.286 180	45.64

BOD sensor system



Dissolved oxygen bottles according to Winkler, soda lime glass



For the determination of dissolved oxygen in water. The measured capacity is specified to  $\pm 0.01$  ml. With a white labelling area. Each bottle and its stopper is marked with a unique, matching identification number.

Nominal capacity ml	NS	Snap-on clip	PK	Cat. No.	Price EUR
100 to 150	14/23	9.304 050	1	9.304 038	22.65
250 to 300	19/26	9.304 051	1	9.304 048	25.32

Clamps for oxygen determination bottles acc. to Winkler



Stainless steel, nickel-plated. For securing the NS stopper.

For bottles ml	For	PK	Cat. No.	Price EUR
100 ... 150	NS 14/23	1	4.684 046	7.09
250 ... 300	NS 19/26	1	4.684 047	7.27

HCL-Absorber, for COD determination



The glass filter devices are made of borosilicate glass 3.3 and can withstand acids, alkalis and solvents and even temperatures of up to 540 °C.

Ground size	PK	Cat. No.	Price EUR
NS 29/32	1	6.225 057	98.80

Measuring systems for the reliable determination of 90 to 999 ppm BOD. Complete with sensor heads and multi-position magnetic stirrer.

- The sensor heads are screwed directly onto the BOD bottles
- Automatic storage of 5 results in 24-hour intervals
- Measured readings in mg/l (ppm) can be read directly on the sensor at any time
- Protected against splashing water (IP 54)

**Scope of supply BOD sensor system 6:** 6-position magnetic stirrer, each 6 BOD sensors incl. batteries, 500 ml brown glass bottles, KOH reservoirs and magnetic stirring rods

**Scope of supply BOD sensor system 10:** 10-position magnetic stirrer, each 10 BOD sensors incl. batteries, 500 ml brown glass bottles, KOH reservoirs and magnetic stirring rods

Specifications

BOD range: 90 ... 999 ppm  
Display: LED (3 digits)  
IP code: IP 54

Type	Description	PK	Cat. No.	Price EUR
BOD sensor system 6	6 positions	1	6.317 212	1,605.00
BOD sensor system 10	10 positions	1	6.317 213	2,463.00
BOD sensor set	500 ml brown glass bottle with BOD sensor, KOH reservoir, stirring rod	1	4.666 791	237.00
BOD sensor	Single sensor	1	4.666 790	229.00



For PFAS analysis

## LLG-Short thread vials ND9, PP

The LLG-Short thread vials are suitable for PFAS analyses. Free from polyhaloolefins.



Capacity	o.d. x Height	PK	Cat. No.	Price
ml	mm			EUR
0.3	11.6 x 32	100	4.008 262	<b>15.20</b>
0.7	11.6 x 32	100	4.712 515	<b>15.20</b>
1.5	11.6 x 32	100	4.712 514	<b>16.14</b>

## LLG-Short thread seals ND9, PP, ready assembled

The LLG-Short thread seals are suitable for PFAS analyses.

- Cap made of PP
- Septa made of PP, silicone or polyimide
- Free from polyhaloolefins



Caps	Septa	PK	Cat. No.	Price
				EUR
blue, with hole	Silicone white/PP transparent	100	4.712 516	<b>21.84</b>
blue, with hole	Silicone white/PP transparent, slitted	100	4.712 517	<b>23.73</b>
transparent, with hole	Silicone white/PP transparent	100	4.712 518	<b>21.84</b>
transparent, with hole	Silicone white/PP transparent, slitted	100	4.712 519	<b>23.73</b>
blue, with hole	Silicone white/Polyimide orange	100	4.712 520	<b>25.63</b>

## b.safe caps, GL45, PP/PPS, PFAS Analytic

**b.safe**

Screw caps, with freely movable insert made of PP. Free from polyhaloolefins. 3 capillary connections (3.2 mm).

- Insert made of PP
- Fittings made of PE
- Ideal for PFAS analysis

**Scope of supply:** Cap, 2xfittings (PE), 3xblind fittings (PE), air valve with service life indicator



Capillary connections: 3  
Neck thread: GL 45

Type	PK	Cat. No.	Price
			EUR
b.safe-Cap	1	4.694 468	<b>114.84</b>

## Air valves, PP, PFAS Analytic

**b.safe**

The integrated non-return valve avoids evaporation of solvents and lets flow ambient air into the bottle in case of vacuum.

- Free from polyhaloolefins



Thread	Life time	PK	Cat. No.	Price
				EUR
UNF 1/4" 28G	6 months	2	4.694 467	<b>43.31</b>

## SPE columns, CHROMABOND PFAS



Special phase for SPE analysis. For enrichment of PFAS from water, textiles and sediments (contaminated soils). Polymeric combination phase with weak anion exchanger, highly porous, spherical particles.

Capacity	Filling quantity	Package	PK	Cat. No.	Price
ml	mg				EUR
3	120	30 Piece	30	4.712 701	<b>181.00</b>
3	120	250 Piece	250	4.712 702	<b>1,210.00</b>
6	300	30 Piece	250	4.712 703	<b>1,955.00</b>
6	300	250 Piece	30	6.320 451	<b>280.00</b>

## EC analytical HPLC columns, NUCLEODUR PFAS/PFAS Delay



Reliable for PFAS



Hydrophobic reversed phase with distinct polar selectivity for special PFAS analysis. Suitable for high sensitivity LC/MS analysis. NUCLEODUR PFAS Delay columns trap and therefore delay system-related PFAS contaminants, ensuring trace-level analysis of PFAS in your samples. Suitable for high sensitivity LC/MS analysis.

Type	Particle size	Length	Int. diam.	PK	Cat. No.	Price
	µm	mm	mm			EUR
PFAS	3	100	2	1	4.712 704	<b>835.00</b>
PFAS Delay	5	50	2	1	4.712 705	<b>600.00</b>

## Universal Ovens UN

**memmert**



### Specifications

Type designation:	N = Natural convection
Working temperature range:	at least 5 °C above ambient to +300 °C
Setting temperature range:	+20 to +300 °C
Setting accuracy:	up to 99.9 °C: 0.1 °C/from 100 °C: 0.5 °C
Power supply:	230 V, 50/60 Hz

Type	Nom. capacity	Max. grids	Included grids	Internal dimensions (W x D x H) mm	External dimensions (W x D x H) mm	Rated capacity kW	Net weight kg	PK	Cat. No.	Price EUR
	L									
UN30	32	3	1	400 x 250* x 320	585 x 434** x 704	1.6	45	1	9.869 681	1,282.00
UN55	53	4	1	400 x 330* x 400	585 x 514** x 784	2.0	57	1	9.869 682	1,486.00
UN75	74	6	2	400 x 330* x 560	585 x 514** x 944	2.5	66	1	9.869 683	1,811.00
UN110	108	5	2	560 x 400* x 480	745 x 584** x 864	2.8	74	1	9.869 684	2,103.00

\* Less 39 mm for fan

\*\*Depth without door handle, please add 56 mm

## Cooled incubators FOC series

Versatile cooled incubators with an auto-tuning temperature control system for optimal temperature stability.

- 2 internal sockets for further devices
- Wireless (WIFI) and wired connectivity
- Front 3 button panel (Set, "+", "-")
- Forced ventilation for uniform temperature distribution

Model FOC 200E: With internal transparent door

**Scope of supply:** Cooled incubator, shelves

**VELP**  
SCIENTIFICA



### Specifications

Temperature range:	3 ... 50 °C
Temperature accuracy:	±0.5 °C
Display:	3-digit LCD
Interface:	Wi-Fi, 2 x RS485
Power supply:	230 V, 50/60 Hz

Type	Nom. capacity	Included grids	External dimensions (W x D x H) mm	PK	Cat. No.	Price EUR
	L					
FOC 120E	109	2	540 x 550 x 912	1	6.316 555	1,817.00
FOC 200E	169	3	540 x 550 x 1263	1	6.316 556	2,073.00

## Metal-cased heating mantles series KM-ME, with controller

**ISOHEAT®**

LabHEAT® - Heating mantles for flasks, round bottom. Flexible glass yarn heating element in plastic plastic-coated, chemical-resistant metal housing. Max. heating element temperature 450 °C; 1.5 m power supply (earthed) cable and RCD (residual current detection); nominal voltage 230 V AC.



Capacity ml	Flask diam. mm	Rating W	Heating zones	PK	Cat. No.	Price EUR
100	64	100	1	1	9.642 521	330.00
250	85	150	2	1	9.642 522	335.00
500	105	200	2	1	9.642 523	348.00
1000	131	300	2	1	9.642 524	369.00
2000	166	500	2	1	9.642 525	420.00
3000	185	600	2	1	9.642 526	458.00
4000	207	750	2	1	9.642 527	581.00
5000	223	860	2	1	9.642 528	633.00
6000	236	1000	2	1	9.642 529	715.00
10000	279	1400	2	1	9.642 530	958.00
20000	345	2000	2	1	9.642 531	1,320.00



## Recirculating cooler VALEGRO

Julabo



- Natural refrigerant
- Illuminated filling level indicator
- OLED touch display

New



The modern, user-friendly recirculating cooler is characterised by its compact design and precise temperature control:

- Natural refrigerant R290
- OLED touch display
- Continuously adjustable pump
- Timer
- Illuminated, easy-to-clean level indicator
- With casters
- Bath volume 1.5 to 3 liters
- Temperature: -20 ... 40 °C
- Temperature stability:  $\pm 0.3$  °C
- Power supply: 200 ... 230 V, 50/60 Hz
- Weight: 26 kg
- Version with Ethernet interface available as an option

Type	Flow rate l / min.	PK	Cat. No.	Price EUR
VALEGRO 350	16	1	6.522 810	<b>3,680.00</b>
VALEGRO 500	19	1	6.522 811	<b>3,970.00</b>

## High-performance freezers TSX Series, up to -35 °C

thermo  
scientific

- Low noise level
- Natural refrigerant
- Audible and visual alarm



- With auto defrost
- Whisper-quiet with a noise level of just 52 dB(A)
- Natural refrigerant (R290)
- Acoustic and visual alarm
- Self-closing door with 90° hinge

## Specifications

Temperature range: -35 ... -15 °C  
Power supply: 230 V, 50 Hz

Type	Capacity l	External dimensions (W x D x H) mm	PK	Cat. No.	Price EUR
TSX 1230 FV	326	619 x 790 x 1854	1	4.671 810	<b>6,650.00</b>
TSX 2330 FV	650	711 x 962 x 1994	1	4.672 628	<b>8,120.00</b>
TSX 3030 FV	827	864 x 962 x 1994	1	6.312 076	<b>8,840.00</b>

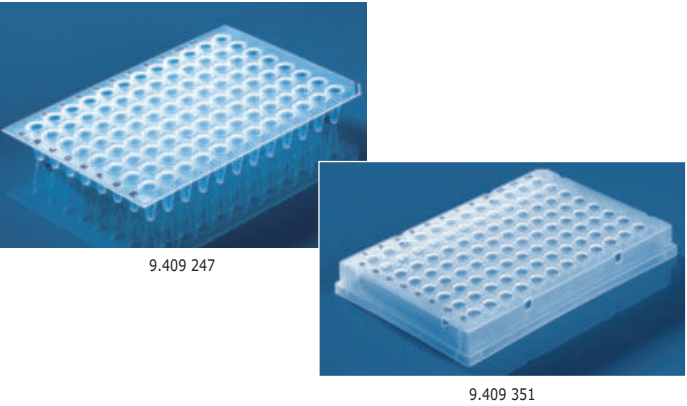
Deep freeze labels  
Cryo-Babies®/Cryo-Tags®

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). Resist most organic solvents and caustic agents.

Type	Dimensions (W x D) mm	For vessels	PK	Cat. No.	Price EUR
Cryo-Babies®	24 x 13	0.5ml tubes	1000	9.100 030	<b>72.82</b>
Cryo-Babies®	33 x 13	1.5/2.0ml tubes	1000	9.100 031	<b>72.82</b>
Cryo-Tags®	38 x 13	General application	1000	9.100 032	<b>72.82</b>



96 well PCR-Plates,  
PP, for PCR or qPCR



The ultra-thin-walled PCR plate design facilitates constant, rapid and precise heat transfer. With blue alphanumeric code and cut corner for easy orientation, or as indicated.

**96-well, non-skirted**  
PP. 0.2 ml wells. 96-well non-skirted PCR plates are suitable for most commercially available thermocyclers.

**96-well, semi-skirted**  
PP. 0.2 ml wells. 96-well semi-skirted PCR plates can easily be labelled or tagged with a barcode.

**96-well, skirted**  
PP. 0.2 ml wells. 96-well skirted PCR plates are especially rigid and are optimally suited for use with automatic pipetting systems and for being transported.

Description	Volume ml	Cut corner	PK	Cat. No.	Price EUR
Low Profile, non-skirted	0.15	H12	50	9.409 247	184.15
Low Profile, semi skirted	0.15	A12	50	9.409 256	184.15
Low Profile, fully skirted*	0.15	H1	50	9.409 351	311.85
Standard profile, non-skirted	0.20	A12	50	9.409 254	184.15
Standard profile, semi skirted	0.20	A12	50	9.409 264	184.15
Standard profile, non-skirted, elevated rim	0.20	H12	50	9.409 381	195.50

\*Black alphanumeric code, no additional markings on the cut corner.

Single PCR tubes  
with attached caps, PP



0.2 ml and 0.5 ml PCR tubes with attached caps are compatible with leading thermocyclers with heated lids.

Capacity	Description	Colour	PK	Cat. No.	Price EUR
ml					
0.2	domed cap	clear	1000	9.409 370	72.95
0.2	flat cap	clear	1000	9.409 371	60.05
0.5	flat cap	clear	1000	9.409 372	55.10

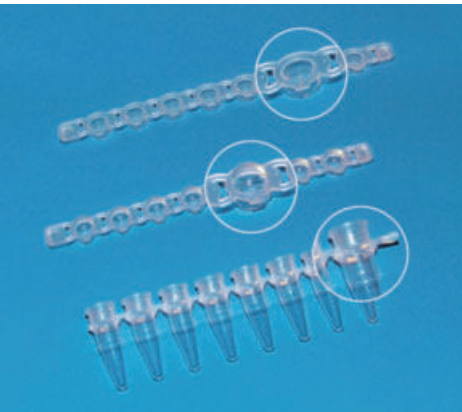
Sealing Films,  
Self-adhesive, Polyester



In case the microplates, PCR-plates, and deep well plates need to be not only covered but also securely sealed, self-adhesive sealing films are the ideal solution.

Description	Application	PK	Cat. No.	Price EUR
single film	ELISA, PCR	100	9.409 386	132.30
single film, highly transparent	ELISA, Real Time PCR	100	4.000 237	191.55

Strips of 8-/12- PCR tubes  
plus detached cap strips, PP



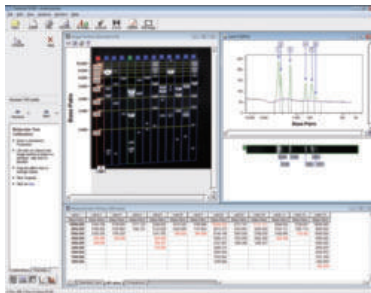
The lids of the 8-strip strips can be opened and closed easily without tools. The vessels have a retaining tab at one end, and the lid strips have a small tab on the side of each lid for careful, contamination-free opening. Made of high-quality polypropylene, RNase-, DNase-, and DNA-free.

Capacity	Description	Colour	PK	Cat. No.	Price EUR
ml					
0.2	Strips of 8 PCR tubes, without caps	clear	125	9.409 374	96.60
0.2	Strips of 8 PCR tubes, with separate flat caps	clear	250	4.007 894	246.25
0.2	Strips of 8 PCR tubes, with separate domed caps	clear	250	4.007 895	231.25

## Gel documentation system microDOC with UV-Transilluminator



- Powerful camera
- Compact device



Recently upgraded with a new 24.1 megapixel digital CMOS camera to guarantee superb resolution, the microDOC is the researcher's choice for a simple, ultra-compact gel documentation system that meets constraints in both budget and space within the laboratory. A large 8" TFT screen enables images, including agarose and fluorescent gels, colorimetric gels, autoradiography film and blotting membrane, to be captured clearly and easily. The system is computer-free and supplied with an 8 GB storage card and 58 mm ethidium bromide filter as standard. Files are saved onto the storage card in RAW, TIFF-RGB and JPEG formats.

**microDOC BASIC:** The microDOC BASIC is a simple, low-cost system comprising a lift-off dark room hood and 24.1 megapixel digital camera, through which the gel is viewed directly.

**TotalLab™ 1D software:** Its main functions include: lane creation, background subtraction, band detection, profile deconvolution, and molecular size, pI and quantity calibration. More sophisticated standalone software options are available for 1D applications that require band matching, array, colony counting and image ToolBox functionalities.

### Camera:

- File Format Design rule for Camera File system, DPOF (version 1.1) compliant
- Focus-Area Selection AF mode and manual focus are available
- Hood
- Safety Door Switch Automatically disconnects UV transilluminator, while opening the chamber door during operation

### Specifications Camera

Effective Pixels:	24.1 megapixels
Type:	TTL-CT-SIR with CMOS sensor
Lens:	Canon EF/EF-S 18-55 mm
Maximum Aperture:	f/2.8 - f/5.6
Image Resolution:	720 × 480 up to 5.184 × 3.456
Data Type Still images:	Exif 2.3 (JPEG), RAW (CR2)
Movies:	MOV (Image data: H264; Audio data: Linear PCM (stereo))
Filter:	Ethidium Bromide or SYBR Green (58 mm)
Inner White Light:	2 x 3 W white light LED (excl. MDOC Basic Models)
Monitor:	8" TFT liquid crystal screen
Display Format:	960 x 234 mm
Luminance:	300 cd/m <sup>2</sup>
Display Mode:	NTSC/PAL mode switchable
Dimensions with camera (W x D x H):	290 x 325 x 515 mm
Rated Voltages:	110 - 220 V
Weight approx.:	7.7 kg

Description	PK	Cat. No.	Price
Compact Gel documentation system*	1	9.584 759	<b>5,496.80</b>
EUR			

\* Incl. Analysis Software TotalLab1D.

## LLG-Agarose Standard



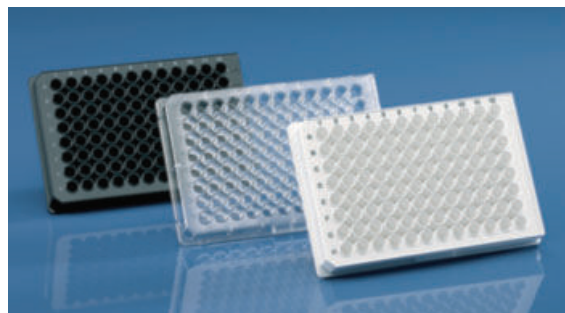
High transparency and low background of the agarose gel ensure clear and sharply defined bands.

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

Appearance:	White powder
Clarity (NTU):	≤4 (1.5% gel)
Gelling point:	36 ± 1.5 °C (1.5% gel)
Melting point:	88 ± 1.5 °C (1.5% gel)
Gel strength:	≥1000 g/cm <sup>2</sup> (1% gel)
Sulphate:	≤0.15%

Capacity	PK	Cat. No.	Price
g			EUR
100	1	4.681 511	<b>53.34</b>
500	1	4.681 512	<b>233.64</b>

## Microtitre plate BRANDplates®, 96-well, pureGrade™, Medium Binding



Non-treated surface. The standard plate for most applications. Particularly applicable for homogenous assays, screening, and in the field of storage.

- Non-sterile
- Grey or embossed alphanumeric coding
- ANSI/SLAS format

The scope of supply includes 1 lid per pack.

Description	Bottom shape/Well volume µl	PK	Cat. No.	Price
EUR				
96-well, transparent	U / 330	100	4.000 238	<b>104.45</b>
96-well, transparent	V / 360	100	6.233 851	<b>104.45</b>
96-well, transparent	F / 350	100	6.231 785	<b>104.45</b>
96-well, transparent	C / 350	100	4.000 239	<b>104.45</b>
96-well, white	U / 330	100	4.000 240	<b>280.10</b>
96-well, white	F / 350	100	6.233 548	<b>280.10</b>
96-well, black	U / 330	100	4.000 241	<b>280.10</b>
96-well, black	F / 350	100	6.233 756	<b>280.10</b>

## Repetitive pipette HandyStep® touch/HandyStep® touch S



- Intuitive Operation
- Ergonomic
- Automatic Tip Ejection



Repetitive pipette with colour touch display and automatic tip size recognition.

The automatic tip size recognition of the PD-Tips II, with patented coding on the piston, automatically displays the tip size after inserting the tip. By inserting a new PD-tip of the same size, all instrument settings are maintained.

**HandyStep® touch** with the standard modes Multi-Dispensing, Auto-Dispensing, Pipetting and Favorites  
**HandyStep® touch S** with the additional functions Sequential Dispensing, Multi-Aspiration and Titration

- Touchscreen operation with intuitive menu navigation and integrated help function
- Automatic tip ejection by the press of a button
- Variable volume adjustment from 1.0 µl to 50 ml
- USB-C connection for quick charging by cable
- Inductive charging with optional charging stand
- Compatible third party tips can also be used

**Scope of supply:** Repetitive pipette, includes universal AC adapter (for Europe, UK, USA, Japan, Australia and New Zealand), Li-Ion battery, USB-Type C cable, shelf/rack mount, sample PD-Tips II, operating manual, performance certificate

Type	Colour	PK	Cat. No.	Price
HandyStep® touch	White	1	9.284 015	<b>EUR 834.50</b>
HandyStep® touch S	Black	1	9.284 016	<b>1,048.00</b>

## Pasteur pipettes, PE



**Kartell**

Disposable pipettes with fine tips for precise dispensing.  
 Length: 150 mm  
 - Graduated

Nominal capacity ml	PK	Cat. No.	Price
1	500	6.206 154	<b>EUR 36.52</b>
3	500	6.206 772	<b>36.52</b>

## Dispenser tips, PD-Tips II



The tips are also compatible with all other instruments of the HandyStep® family and with repetitive pipettes from other manufacturers.

- Cylinder: PP/piston: HDPE, 0.1 ml piston: LCP
- Volumes from 0.1 ml to 50 ml
- Comply with the requirements of ISO 8655
- Supplied with batch certificate
- Adapter for sizes 25 ml and 50 ml included
- PD-Tips II cannot be autoclaved; the adapters are autoclavable

Nominal capacity ml	Description	Sterile	PK	Cat. No.	Price
0.10	bulk	-	100	9.280 950	<b>EUR 89.20</b>
0.50	bulk	-	100	9.280 951	<b>79.85</b>
1.00	bulk	-	100	9.280 952	<b>79.85</b>
1.25	bulk	-	100	9.280 953	<b>79.85</b>
2.50	bulk	-	100	9.280 954	<b>79.85</b>
5.00	bulk	-	100	9.280 955	<b>79.85</b>
10.00	bulk	-	100	9.280 956	<b>79.85</b>
12.50	bulk	-	100	9.280 957	<b>79.85</b>
25.00	bulk	-	50	9.280 958	<b>44.95</b>
50.00	bulk	-	25	9.280 959	<b>24.25</b>

## Automatic Burettes, Schilling pattern, borosilicate glass 3.3/ PE



- Precise dosing using the press button
- Exact fine titration with the micro-screw
- With Schellbach stripe
- Resistant to chemicals
- Further parts in contact with the medium: PP, natural rubber
- Graduation according to Category B (Tolerances according to DIN EN ISO 385)
- Blue ring graduations

Capacity ml	Grad. ml	Tolerance ± ml	Height mm	PK	Cat. No.	Price
5	0.05	0.030	610	1	7.300 482	<b>EUR 61.85</b>
10	0.05	0.045	560	1	6.070 383	<b>61.85</b>
15	0.1	0.045	520	1	6.070 634	<b>61.85</b>
25	0.1	0.075	650	1	7.200 163	<b>61.85</b>
50	0.1	0.075	920	1	6.059 942	<b>72.05</b>





## Microliter pipettes LLG-proMLP

All LLG-proMLP pipettes are equipped with an adjustable eject button allowing right and left handed users to set the button\*according to their preferences.



- High quality **Made in France**
- High accuracy, reliability and reproducibility
- Extremely light weight while the robustness still remains
- Perfect ergonomics for highest comfort
- Colour-coded push-button for quick operation
- Extremely low pipetting forces
- **Built-in volume locking** for error-free results
- Completely autoclavable at 121 °C
- Including individual calibration certificate (according to EN ISO 8655)

\*not available for 5 ml and 10 ml pipette

## Single channel microliter pipettes



**Scope of supply:** microliter pipette, calibration tool



Capacity	Increments	Accuracy max. vol. (± R%)	PK	Cat. No.	Price
μl	μl				EUR
0.2-2	0.002	1.65	1	6.270 420	191.08
0.5-10	0.02	1.10	1	6.270 421	191.08
2-20	0.02	1.00	1	6.270 422	191.08
10-100	0.2	0.80	1	6.270 423	191.08
20-200	0.2	0.80	1	6.270 424	191.08
100-1000	2	0.80	1	6.270 425	191.08
500-5000	2	0.66	1	6.270 426	191.08
1000-10000	20	0.60	1	6.270 427	191.08

## Multichannel microliter pipettes



**New**

- Made in the EU
- Adjustable tip ejector button
- Integrated volume lock

The new LLG-proMLP multichannel microliter pipettes combine high accuracy and reliability with ergonomic and extremely low force pipetting, relieving stress from your hand and thumb. Available volume ranges from 0.5 μl to 300 μl.

**Scope of supply:** microliter pipette, calibration tool

Capacity	Colour coding	Channels	PK	Cat. No.	Price
μl					EUR
0.5 ... 10	red	8	1	4.690 343	608.10
2 ... 20	light yellow	8	1	4.690 344	608.10
20 ... 200	yellow	8	1	4.690 346	608.10
20 ... 300	green	8	1	6.523 142	608.10
0.5 ... 10	red	12	1	4.690 347	645.10
2 ... 20	light yellow	12	1	4.690 348	645.10
20 ... 200	yellow	12	1	4.690 350	645.10
20 ... 300	green	12	1	6.523 143	645.10



## LLG-Pipette stands for single channel microliter pipettes, PMMA



White, stable plastic (PMMA), industrial grade. Adjustable heights. Suitable for all kinds of pipettes.

Description	PK	Cat. No.	Price
			EUR
for 4 pipettes	1	9.280 014	20.27
for 6 pipettes	1	9.280 011	27.25

## LLG-Labware pipette tips, economy 2.0, PP



- Improved optical clarity and pipette fit
- Colored coded rack inserts for easy identification
- Graduated (5 and 10 ml without graduation, 6.326 975 with graduation)
- Autoclavable
- DNase and RNase free

Capacity	Colour	Package contents	PK	Cat. No.	Price
μl					EUR
0.1 ... 10	transparent	10 x 96 tips in rack	960	4.668 776	35.70
0.1 ... 10	transparent	10 x 96 tips in rack	960	6.491 406	39.98
1 ... 200	transparent	10 x 96 tips in rack	960	4.668 778	34.54
1 ... 200	yellow	10 x 96 tips in rack	960	4.668 779	34.54
100 ... 1000	transparent	8 x 96 tips in rack	768	4.668 782	32.66
100 ... 1000	blue	8 x 96 tips in rack	768	4.668 783	30.82
100 ... 5000	clear	1 bag of 250	250	9.409 097	22.30
100 ... 5000	clear	1 bag of 250	250	6.326 975	22.30
1000 ... 10000	clear	1 bag of 100	100	9.409 098	17.84

## LLG-Measuring jugs with handle, PP



Made of highly transparent Polypropylen. With easy-to-read blue graduation.

- Autoclavable at 121 °C
- Open handle
- Stackable
- According to ISO 7056

Nominal capacity ml	Grad. ml	Ext. diam. mm	Height mm	PK	Cat. No.	Price EUR
250	5	75	115	2	9.013 680	<b>4.41</b>
500	10	100	137	2	9.013 681	<b>6.22</b>
1000	10	125	167	2	9.013 682	<b>9.08</b>
2000	20	148	217	1	9.013 683	<b>7.37</b>
3000	25	170	244	1	9.013 684	<b>11.75</b>

## LLG-Griffin beakers, PP



Transparent. Low form with practical spout and easy-to-read blue graduation.

- Autoclavable at 121 °C
- Good chemical resistance
- Stackable
- According to ISO 7056

Nominal capacity ml	Grad. ml	Diam. mm	Height mm	PK	Cat. No.	Price EUR
100	10	50	70	2	9.013 672	<b>2.50</b>
250	25	67	93	2	9.013 673	<b>3.96</b>
500	50	88	119	2	9.013 674	<b>6.08</b>
1000	50	109	147	2	9.013 675	<b>9.45</b>
2000	100	133	184	1	9.013 676	<b>6.96</b>

## Aspirator bottles, series 350, HDPE



Food-grade product according to Regulation (EC) No 10/2011. Natural with printed blue graduations (in L) and a screwed closure. With or without a threaded connection at the base.

Capacity Litres	Ext. diam. mm	Height mm	Handle	PK	Cat. No.	Price EUR
5	167	330	1	1	9.011 009	<b>39.86</b>
10	206	427	1	1	9.011 010	<b>48.48</b>
25	278	580	2	1	9.011 025	<b>97.95</b>

Height in mm without cap.

## Cylindrical jars with ribbed cap, HDPE



The cylindrical jars are supplied with insert and cap. Thanks to the large neck, they are suitable for powders, solid specimen, creamy or semisolid substances, crystals and hygroscopic substances. Suitable for foodstuff according to EC Regulation 1935/2004 and EC Regulation 10/2011.

Nominal capacity ml	Ext. diam. mm	Neck i. d. mm	Height mm	PK	Cat. No.	Price EUR
70	50	36	60	10	4.672 397	<b>17.20</b>
120	56	36	71	10	4.672 394	<b>18.80</b>
250	69	50	94	10	4.672 395	<b>20.00</b>
500	86	70	107	10	4.672 396	<b>24.40</b>
1000	111	85	128	10	4.672 393	<b>34.00</b>
1500	111	87	182	10	9.073 444	<b>37.60</b>
2000	111	87	235	10	9.073 446	<b>42.80</b>

## Vial disposer Arnold/Marco, PP



For the safe and quick disposal of HPLC vials. Thanks to the safety funnel with an extra-large neck diameter, your vials fall easily through the opening without jamming or clogging the opening. The hinged lid safely holds back solvent vapors and other contaminants.

- For the disposal of large quantities of sample vials
- Connection for optional activated carbon filter available
- Low overall height, also suitable for safety storage cabinets (Marco)

**Scope of supply:** 10 l canister, safety funnel

Type	Dimensions (W x D x H) mm	Funnel diam. mm	PK	Cat. No.	Price EUR
Arnold	195 x 195 x 380	185	1	6.328 027	<b>269.00</b>
Marco	195 x 195 x 380	140	1	6.328 028	<b>214.00</b>

## LLG-Autoclavable bags, PP



Constructed from very strong PP film with a broad seam at the bottom. For the disposal of contaminated labware. When autoclaving, the neck of the bag must be left open. Film thickness: 50 µm.

Capacity	Width	Length	Package contents	PK	Cat. No.	Price EUR
L	mm	mm				
1.5	200	300	Dispenser box of 100 bags	100	9.404 099	<b>7.49</b>
6.0	300	500	Box of 500 bags	500	9.404 220	<b>72.16</b>
22.0	400	780	Box of 250 bags	250	9.404 221	<b>64.61</b>
25.0	500	780	Box of 250 bags	250	9.404 222	<b>79.89</b>
32.0	600	800	Box of 250 bags	250	9.404 223	<b>87.29</b>
32.0	600	780	Box of 100 bags	100	9.404 103	<b>36.18</b>
72.0	700	1100	Box of 250 bags	250	9.404 224	<b>158.14</b>
72.0	700	1100	Box of 75 bags	75	9.404 105	<b>44.82</b>

## Needles and waste containers Medibox®



- Break-resistant, puncture-resistant and stable when used as intended in accordance with the specifications of DIN EN ISO 23907
- Can be temporarily closed with one hand
- Can be permanently sealed
- Marking of maximum fill level on the lid or directly on the box
- Autoclavable at 134° for up to 18 minutes (does not apply to the Medibox® 0.8 litre)
- Certified according to: DIN EN ISO 23907; Directive 2008/68/EC and ADR-UN approval: UN 3291
- Meets the requirements for waste containers according to TRBA 250

Volume litres	Filling volume L	Dimensions (W x D x H) mm	PK	Cat. No.	Price EUR
0.8	0.67	98 x 98 x 180	9	6.321 710	<b>29.16</b>
2.4	2.0	151 x 151 x 200	9	6.321 707	<b>27.00</b>
4.7	3.9	190 x 190 x 200	5	6.321 708	<b>21.30</b>
5.7	4.8	190 x 190 x 257	5	6.321 709	<b>25.30</b>

LLG-Absorbent,  
oil and chemical binder, 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: colour changes to yellow in contact with acids, to red in contact with alkalis. Disposal according to the pollutant recorded.

Capacity	Package	PK	Cat. No.	Price EUR
kg				
1.5	Square handle bottle	1	6.283 037	<b>51.30</b>
5.0	Bucket	1	6.270 479	<b>148.30</b>

LLG-Safety Eyeshields *lady*

- CE approved to EN 166 and EN 170
- Panoramic wrapping lens
- 180° visual field
- Nosepad and terminal tips made from soft, moldable material for optimal comfort and individual customisation
- 100% UV protection (up to 400 nm)
- Weight only 25 g

Colour	Lens	PK	Cat. No.	Price
				<b>EUR</b>
white/green	clear, AF+, AS+, 2C-1.2 U 1 FT KN CE	1	9.006 007	<b>10.97</b>
white/pink	clear, AF+, AS+, 2C-1.2 U 1 FT KN CE	1	9.006 008	<b>10.97</b>
black/green	clear, AF, AS, 2C-1.2 U 1 FT CE	1	9.006 009	<b>9.75</b>

Disposable Gloves  
Kimtech™ Purple Nitrile™

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



**Ansell**



Offering the highest protection of all Kimtech™ gloves, Purple Nitrile™ gloves are latex-, silicone- and powder-free.

- Contains no natural rubber latex
- Textured fingertip, enhances wet and dry grip
- Virus Protection
- AQL 0.65
- **Cat. III Low Chemical resistant**

According to EN ISO 374-1:2016/Type B, EN ISO 374-5:2016, EN 420, Suitable for food handling.

Size	Length	PK	Cat. No.	Price
	mm			<b>EUR</b>
XS (5 to 6)	240	100	9.005 420	<b>25.91</b>
S (6 to 7)	240	100	9.005 421	<b>18.63</b>
M (7 to 8)	240	100	9.005 422	<b>18.63</b>
L (8 to 9)	250	100	9.005 423	<b>18.63</b>
XL (9 to 10)	250	90	9.005 424	<b>25.91</b>

## Hand-Held Drench Hoses



Two sprays in one. The hose can be used as a fixed eyewash when fitted into the mount. The hose can also be removed from the mount so that other body parts and reclining patients can be treated.

- Wall-/ table mount included
- according to DIN 1988 und DIN EN 1717
- according to DIN EN 15154-2:2006 and ANSI Z358.1-2014
- DIN-DVGW tested and certificated
- DIN certification label included

Spray height: 250mm  
Hose length: 1500mm  
Connection: 1/2" swivel nut  
Water output: 7 litres/min per spray head, regulated  
Inlet fitting: M 28 x 80 mm

Description	Connection	PK	Cat. No.	Price
				<b>EUR</b>
1 spray head, 45° angle	1/2" female	1	9.733 778	<b>280.00</b>
2 spray heads, 45° angle	1/2" female	1	9.733 779	<b>309.00</b>
1 spray head, vertical	1/2" female	1	9.733 786	<b>232.00</b>

Thermal protection gloves  
TempTec 332, neoprene

EN 388 EN ISO 374-1 Type A EN 407 EN 511



2212X

ACLMS

X2XXXX



- Thermal insulation due to double-knit cotton
- Good grip due to pebbled palms
- Chemical resistance to acids and aliphatic solvents
- 1 pair per pack

Length: 355 mm  
Colour: black/blue  
CE: **Cat. III**

Size	PK	Cat. No.	Price
			<b>EUR</b>
8	1	6.269 287	<b>46.61</b>
9	1	6.281 320	<b>46.61</b>
10	1	6.316 498	<b>46.61</b>



## Precision wipes, KIMTECH SCIENCE, 1-ply



Exceptional Workplaces



Precision tissue wipes for critical cleaning in the electronic, optic and precision mechanics industries, lint-free, highly absorbent and strong, even when wet. 1-ply, white. Anti-static.

Dimensions	Package contents	PK	Cat. No.	Price
mm				EUR
304 x 304	Box of 196 wipes	1	9.413 020	18.38
115 x 215	Box of 280 wipes	1	9.413 021	4.90

## Wipes, WypAll\*L20/L30



Exceptional Workplaces



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

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

Type	Width	Package contents	Colour	PK	Cat. No.	Price
	mm					EUR
L20	330	1 roll x 500 wipes	blue	1	9.413 044	21.45
L20	185	6 rolls x 300 wipes	white	6	9.413 091	83.87
L30	370	1 roll x 670 wipes	blue	1	9.413 046	59.55

## LLG-Hand towels, 3-ply



Bright white, extra absorbent, completely unfolding, matching most dispenser systems, economical use due to high absorbency and comfortable size. Suitable for LLG-Dispenser for hand towels, Cat. No. 7.618 375.

Width	Length	Package contents	PK	Cat. No.	Price
mm	mm				EUR
220	420	20 Packs with 100 tissues	20	6.266 568	93.98

## Brushes, Set

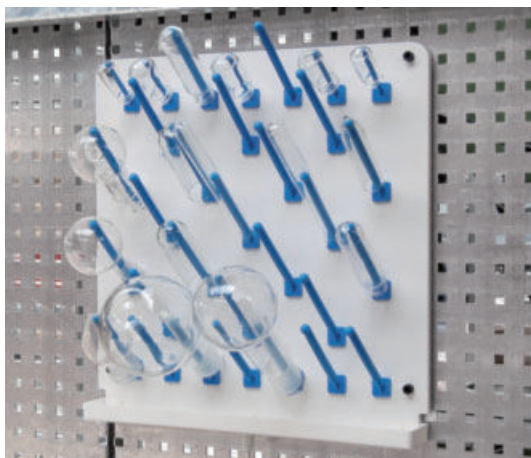


### Set consisting of:

Pipette brush Ø 5 mm, L 500 mm (9.019 010)  
Reagent bottle brush with wool tip Ø 10 mm, L 190 mm (9.019 020)  
Reagent bottle brush with wool tip Ø 30 mm, L 270 mm (9.019 040)  
Reagent bottle brush with head bundle Ø 10 mm, L 250 (9.019 030)  
Bottle brush with head bundle Ø 50 mm, L 330 mm (9.019 050)  
Bottle brush with head bundle Ø 60 mm, L 470 mm (9.019 060)  
Beaker brush Ø 85 mm, L 390 mm (9.019 070)  
Beaker brush Ø 85 mm, L 430 mm (9.019 080)  
Beaker brush Ø 100 mm, L 430 mm (9.019 090)  
Beaker brush Ø 100 mm, L 630 mm (9.019 092)

Type	PK	Cat. No.	Price
			EUR
Set	1	9.019 002	92.00

## Draining rack LaboPlast®, PVC



The stable rods are individually placed into the holes of the draining rack and are clicked into place. Their positions can be changed at any time.

**Scope of supply draining rack with drain channel:** Draining rack incl. wall mounting set (screws, dowels), removable drain channel incl. drainage connection and drain tube

Width	Height	PK	Cat. No.	Price
mm	mm			EUR
400	400	1	9.003 374	225.45
500	500	1	9.003 375	268.90
600	600	1	9.003 376	307.15

## LLG-Trolleys, Stainless Steel



Made of CNS 18/10, material no. 1.4301. All shelves are produced with an all-around raised profile edge. This prevents anything from slipping over the edge. The load capacity per shelf is 80 kg. Wall bumpers made of plastic (polyamide) on all four corners protect against damage.

Description	Width	Depth	Height	PK	Cat. No.	Price
	mm	mm	mm			EUR
2 shelves, vertical spacing 585mm	900	600	950	1	9.148 101	329.88

## Wiper Bowl® Polytex®

The cleaning cloths are packed in the practical Wiper Bowl® dispenser bucket. This means that the moist cleaning substances remain effective for a particularly long time and the wipes do not dry out.

- consisting of 100% extremely robust and low-lint polypropylene
- for removing oils, grease, adhesives, paints etc, adhesives, colours etc. and stubborn soiling

**Attention:**  
**Minimum order quantity = 6 buckets !**



Description	PK	Cat. No.	Price
1 bucket with 72 tissues at 25 x 25 cm	1	7.673 365	EUR 10.42

## Spirit burner, 18/10 steel



With a wick height adjuster and a sealing cap. Capacity approx. 60ml.

Type	PK	Cat. No.	Price
Spirit burner	1	9.018 560	EUR 20.50

## LLG-Laboratory Power Failure Detector

- Immediate visual and acoustic alarm
- Alarm can sound for short power outages, or for larger periods of at least 12 hours (can be switched off manually).
- Plug safety cover offers protection against accidental disconnection of plug
- Maximum total power of connected devices 3500 W power supply 230 V 50 Hz
- Suitable for European plugs
- Max. Rating 16 A
- With built-in battery

**Scope of supply:**  
1 x power failure detector  
2 x plug safety caps  
2 x screws



Type	PK	Cat. No.	Price
LLG-Laboratory Power Failure Detector	1	6.255 819	EUR 44.23

## Safety Bunsen Burner, schuett phoenix II



Ideal for safety  
cabinets

*schuett***biotec.de**



eco



standard

For sterilising, heating, flame sterilising. For use in every microbiological laboratory or in safety cabinets.

**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.	Price
			EUR
schuett phoenix II eco*	1	9.018 760	<b>507.00</b>
schuett phoenix II standard*	1	9.018 761	<b>641.78</b>
schuett phoenix II accu	1	9.018 762	<b>724.72</b>

\*incl. foot switch, stainless steel

## Inoculation loops and loop stands

*schuett***biotec.de**



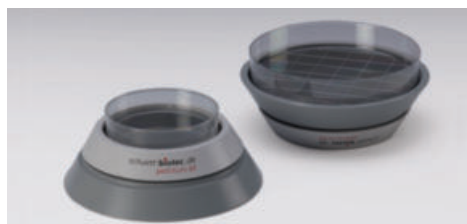
**Inoculation loops** made from stainless steel, special stainless steel wire or platinum-iridium wire (90/10). It can be heated to red heat. Length: 60 mm. Wire diameter: 0.5 mm.

**Inoculation loop stand** robust and sturdy made of plastic (autoclavable). Accommodates up to 6 inoculation loop holders at any one time.

Type	Description	Loop diam. mm	PK	Cat. No.	Price
					EUR
P-I 1	Platinum-iridium	1	1	9.520 180	<b>54.95</b>
P-I 2	Platinum-iridium	2	1	9.520 181	<b>54.95</b>
P-I 3	Platinum-iridium	3	1	9.520 182	<b>54.95</b>
P-I 5	Platinum-iridium	5	1	9.520 184	<b>54.95</b>
W-1.5	Stainless steel	1.5	10	9.520 185	<b>31.10</b>
W-2.5	Stainless steel	2.5	10	9.520 186	<b>31.10</b>
W-4.0	Stainless steel	4.0	10	6.233 696	<b>31.10</b>
Inoculation loop stand R (round)	(Diam. x H) 80 x 50 mm		1	9.520 190	<b>72.58</b>
Inoculation loop stand L (long)	(L x W x H) 180 x 50 x 50 mm		1	9.520 191	<b>77.76</b>

## Petri dish turntables, schuett petrurn

*schuett***biotec.de**



9.520 201



9.520 200

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

### schuett petrurn-M

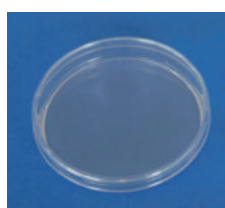
With manually operated. Petri dish (90 mm or 150 mm diameter).

### schuett 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.

Type	Dimensions	PK	Cat. No.	Price
	mm			EUR
schuett petrurn-M, manually driven	(Dia. x H) 160 x 45	1	9.520 201	<b>234.43</b>
schuett petrurn-E, electrically driven	(Dia. x H) 160 x 70	1	9.520 200	<b>510.42</b>
Foot pedal for schuett petrurn-E		1	9.520 203	<b>90.58</b>
Turntable adapter for Petri dishes up to 150mm diameter		1	9.520 204	<b>73.53</b>

## LLG-Petri dishes, PS



Made in the EU



Produced under aseptic conditions in an ISO 6 cleanroom. Contact plate with counting grid.

- Stable thickness to prevent any deformations while using
- Stackable
- With or without vents
- Aseptic (90 mm diam.) or beta irradiated sterile versions (all sizes)
- Packed in sleeves á 10 dishes or 20 dishes (90 mm diam. dishes)

Ext. diam. mm	Description	Height approx. mm	PK	Cat. No.	Price
					EUR
60	with triple vents, aseptic	14	1080	6.323 696	<b>110.54</b>
60	without vents, aseptic	14	1080	6.323 697	<b>110.54</b>
90	with triple vents, aseptic	16	480	6.285 823	<b>61.66</b>
90	without vents, aseptic	16	480	6.285 824	<b>61.66</b>
60	with triple vents, sterile	14	1080	4.678 371	<b>133.21</b>
60	without vents, sterile	14	1080	4.678 372	<b>133.21</b>
90	with triple vents, sterile	16	480	6.285 816	<b>68.98</b>
90	without vents, sterile	16	480	6.285 817	<b>68.98</b>
150	with triple vents, sterile	19	140	4.680 144	<b>108.77</b>

Mini centrifuge LLG-uniCFUGE 2



Compact and reasonably priced mini centrifuges with two rotor types. Speed can be adjusted to 4000 rpm or 6000 rpm. Powerful motor for fast starting. Quick stop when the lid is opened.

LLG-uniCFUGE 2 with **Universal rotor** for 6 x 1.5/2.0 ml and 6 x 0.5 ml tubes and 2 times 8 x 0.2 ml PCR-strips.

**Scope of supply:** Centrifuge, mains cable

Specifications

Max. RCF:	1200 x g and 2000 x g
Max. speed:	4000 rpm and 6000 rpm
Motor:	brushless DC motor
Max. load:	6 x 0.5/1.5/2 ml and 2 x 8-tube PCR strips (0.2 ml)
Dimensions (diam. x H):	140 x 120 mm
Power supply:	100 ... 240 V, 50/60 Hz
Warranty:	3 years

Description	Plug type	PK	Cat. No.	Price
				EUR
LLG-uniCFUGE 2 with universal rotor	EU	1	6.263 510	121.43

Safe-lock reaction tubes, PP



- A small clasp on the patented cap locking device clips onto the rim of the tube
- Autoclavable when open (121 °C, 20 min.)
- With frosted labelling area.
- Excellent mechanical stability for centrifugation
- Graduated

Capacity	Colour	PK	Cat. No.	Price
ml				EUR
0.5	Transparent	500	9.409 320	52.77
1.5	Transparent	1000	9.409 331	53.40
2.0	Transparent	1000	9.409 341	72.89
0.5	Assorted colours	500	9.409 357	57.23
1.5	Assorted colours	1000	9.409 358	57.23
2.0	Assorted colours	1000	9.409 359	78.80

Centrifuge Frontier™ Multi FC5707



Including rotor for 15 ml and 50 ml tubes



Compact multifunctional centrifuge for general laboratory applications, with splash-proof control panel and touch-wheel control.

- Backlit, two-lined LCD display
- Quiet brushless motor
- 10 acceleration and deceleration rates
- Fast spin for small measurement runs
- Timer 10 s to 99 h 59 min 59 s
- Memory for up to 99 programmes
- Lid locking system
- Imbalance sensor
- Angle rotor for 4 x 50 ml or 4 x 15 ml tubes

**Scope of supply:** Centrifuge, 4 x 50/15 ml angle rotor

Specifications

Max. rcf:	4445 x g
Speed:	200 ... 6800 rpm
Permitted ambient temperature:	2 ... 35 °C
Dimensions (WxDxH):	277 x 356 x 236 mm
Power supply:	230 V, 50/60 Hz
Weight:	10 kg

Type	PK	Cat. No.	Price
			EUR
FC5707+R09	1	6.492 207	1,388.03

Eppendorf Tubes® BioBased, PP, with screw cap, HDPE



Eppendorf Tubes® BioBased are made of 90% bio-based plastic. For cell culture and cell biology applications, as well as for sample preparation in microbiology and molecular biology laboratories.

- Sterile
- Pyrogen-, DNase-, RNase- and DNA-free
- Lid with grooved sides
- Conical with screw cap
- Large labeling field
- ISCC PLUS and ACT certification

Nom. capacity	Max. rcf	Package	PK	Cat. No.	Price
L	x g				EUR
5	2500	2 bags of 100	200	4.687 109	79.13
15	19500	10 bags of 50	500	4.687 110	185.05
25	17000	8 bags of 25	200	4.687 111	85.57
50	19500	20 bags of 25	500	4.687 112	220.84



## Ultrapure water system arium® mini plus extend/mini plus extend UV



SARTORIUS

- For type 1 and type 3 water
- Removable dosing unit
- Compact



arium® mini plus extend

A combined ultrapure water system was developed to provide ASTM type 1 and type 3 water. arium® mini is the first ultrapure water system with integrated bag tank technology. The 5-litre bags are made of multilayer and specialised film, conforming to biocompatibility standards. The pure water can be stored in the side integrated 5-litre bag until the production of type 1 pure water.

The arium® mini extend versions have a removable dispenser with magnetic holder for ergonomic and splash-free filling. The combination of the dispenser with the ultrapure water system enables a small footprint. Can be combined with Sterile Plus final filter or Cell Plus filter.

Type	PK	Cat. No.	Price
			EUR
arium® mini plus extend	1	6.493 291	6,170.00
arium® mini plus extend UV	1	6.493 292	6,900.00

## Accessories for Ultra Pure Water System arium® mini plus

Type	PK	Cat. No.	Price
			EUR
Sterile filter	1	6.288 218	123.00
Pre-treatment cartridge	1	7.647 749	369.00
Scientific kit ultrapure cartridge	1	7.647 755	299.00
5-litre bag	1	7.647 756	46.40

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



With blue PP screw cap and pouring ring. ISO 4796-1 compliant. Thread acc. to DIN 168-1 and approximate graduations.

Capacity	Diam.	Height with cap	Neck thread	PK	Cat. No.	Price
ml	mm	mm	GL			EUR
1000	101	230	45	10	4.679 010	166.80
2000	136	265	45	1	9.072 007	39.24
3500	160	295	45	1	9.071 682	125.16
5000	182	335	45	1	9.072 008	170.52
10000	227	415	45	1	9.072 004	305.38
15000	268	450	45	1	7.076 312	406.39
20000	288	510	45	1	9.072 009	654.00

## Distilled water



Deionized and UV irradiated. Acc to DIN 43530/EN 385. In plastic canister.

### Specifications

pH value:	<7.0
Conductivity:	<5 µS/cm
Hardness:	<0.02 mmol/l
Chlorine content:	<2 mg/l

Capacity	PK	Cat. No.	Price
L			EUR
10.0	1	6.273 852	12.66
20.0	1	6.280 900	26.11
60.0	1	6.289 280	76.27

## Overhead stirrer EUROSTAR 20 digital



Overhead stirrer designed for simple stirring tasks for quantities up to 15 l (H<sub>2</sub>O). Continuous comparison of shaft speed to desired speed is maintained, and variations are adjusted automatically. This guarantees a constant speed even with changes in viscosities of the sample.

- Digital speed display
- Infinitely adjustable speed
- Push-through agitator shafts
- Overload protection
- Short-term overload operation



### Specifications

Stirring quantity max. (H <sub>2</sub> O):	15 l
Max. viscosity:	10000 mPas
Motor rating input/output:	70/42 W
Speed range:	0/30 to 2000 rpm
Max. torque at stirring shaft:	20 Ncm
Display:	LED
Chuck range:	0.5 to 10 mm
Dimensions (W x D x H):	86 x 208 x 248 mm
Weight:	4.4 kg
Protection class DIN EN 60529:	IP 42
Power supply:	230 V, 50/60 Hz

Type	Connector	PK	Cat. No.	Price
				EUR
EUROSTAR 20 digital	EU	1	9.816 691	1,246.00
EUROSTAR 20 digital	UK	1	9.816 692	1,252.86
EUROSTAR 20 digital	CH	1	9.816 693	1,251.83

## Crescent-shaped stirring rotors, PTFE



The semi-circular shape of the paddle is ideal for mixing in round-bottom flasks. The pivoting blade allows insertion into vessels with narrow necks and/or ground joints. The stirrer shafts consist of a PTFE-jacketed, stainless steel shaft and a stirrer paddle made of solid PTFE.

**Operating temperature: -200 °C to +250 °C**

Ø agitator	Ø agitator shaft	To fit chuck diam.	PK	Cat. No.	Price
mm	mm	mm			EUR
65	8	6.5	1	9.197 121	160.07
90	8	6.5	1	9.197 122	155.24
90	10	8.0	1	9.197 127	175.68
90	10	8.0	1	9.197 124	167.08

## Magnetic stirrer Mini MR standard



- For stirring quantities up to 1 L (H<sub>2</sub>O).
- Infinitely variable speed from 0 to 2500 rpm
- White top plate suitable for observing colour reactions
- Power supply with adapter for EU/CH/UK/USA

### Specifications

Max. stirring volume, (H <sub>2</sub> O):	1 l
Speed range:	0 ... 2500 rpm
Permissible ambient temperature:	5 ... 40 °C
Permissible relative moisture:	80%
Plate material:	Polyester film
Top plate dimensions (W x D):	115 x 115 mm
Overall dimensions (W x D x H):	115 x 129 x 37 mm
Supply requirements:	100 ... 240 V, 50/60 Hz
Protection to DIN EN 60529:	IP42

Type	Plug type	PK	Cat. No.	Price
				EUR
Mini MR standard	EU/CH/UK/USA	1	9.720 211	295.00

## Propeller, 3 blades, PTFE



The blades are inclined at 45°. Recommended for medium to high speed operations.

The stirrer shafts consist of a PTFE-jacketed, stainless steel shaft and a stirrer paddle made of solid PTFE. High chemical resistance makes it almost universally suitable.

**Operating temperature: -200 °C to +250 °C**

Ø agitator	Ø agitator shaft	To fit chuck diam.	PK	Cat. No.	Price
mm	mm	mm			EUR
50	6	4.0	1	9.197 138	157.79
75	8	6.5	1	9.197 130	231.88
75	10	8.0	1	9.197 140	256.27

## Eppendorf ThermoMixer™ FP/F0.5/F1.5/F2.0

eppendorf



Inclusive block



The devices combine precise heating and mixing with the highest stability, even at maximum mixing frequency. Mixing and incubation steps can be performed independently.

- For 24 reaction vessels or one microplate/deepwell plate
- Simple and intuitive operation using predefined temperature keys (37 °C, 42 °C, 56 °C and 95 °C)
- Improved temperature homogeneity with the new ThermoTop

### Specifications

Temperature operation range:  
Temperature adjustable range:  
Accuracy/Resolution:  
Max. heating time:

Shaking frequency ThermoMixer™  
F1.5/F2.0:  
Shaking frequency ThermoMixer™  
FP/F0.5:  
Orbit:  
Weight:  
Electrical heating power:  
Power supply:

### FP // F0.5 // F1.5 // F2.0

Min. 4 °C above RT, max. 100 °C  
1 °C/100 °C  
±0.5 °C at 20 ... 45 °C  
18 °C/min // 15 °C/min //  
11 °C/min // 13 °C/min

300 to 1500 rpm

300 to 2000 rpm

3 mm

6.1 kg // 6.2 kg // 6.3 kg // 6.3 kg

200 W

220-240 V, 50/60 Hz

Type	Dimensions (W x D x H) mm	PK	Cat. No.	Price EUR
ThermoMixer™ FP	206 x 304 x 164	1	9.776 905	<b>3,269.00</b>
ThermoMixer™ F0.5	206 x 304 x 163	1	9.776 936	<b>3,139.00</b>
ThermoMixer™ F1.5	206 x 304 x 170	1	9.776 904	<b>3,062.00</b>
ThermoMixer™ F2.0	206 x 304 x 170	1	9.776 937	<b>3,062.00</b>

## Roller mixer CTR-6

grant



- For CO<sub>2</sub> incubators
- With remote control



This roller mixer is specifically designed for use in harsh environments such as high CO<sub>2</sub> and humidity and provides reproducible results for cell culture growth. Removable rollers make the unit flexible and allow for performing various procedures and techniques with various cultivation vessels.

- With remote control to protect the electronics from the CO<sub>2</sub> environment of the incubator
- With stepper motor, guaranteed service life up to 10000 h
- Timer from 1 min to 96 h, continuous
- Stackable with optional stacking kits (up to 3 devices)

Type	Movement type	PK	Cat. No.	Price EUR
CTR-6	rotating/wobbling	1	6.523 372	<b>1,391.00</b>

## Stacking kits for roller mixer CTR-6

Type	Description	PK	Cat. No.	Price EUR
CTR SK2	For 2 devices	1	6.523 373	<b>196.00</b>
CTR SK3	For 3 devices	1	6.523 374	<b>294.00</b>

## Centrifuge/Vortexer MSC-2P

grant



- 2 functions in one device
- For PCR plates

MSC-2P is a compact, benchtop digital centrifuge and vortex mixer for unskirted or semi-skirted PCR plates. The combination of centrifugation and mixing functionality ensures fast operation and repeatable results. Suitable for high sample throughput and particularly small volumes. With 4 independent modes for centrifugation, vortexing (up to 5 min), combined centrifugation/vortexing motion and the spin-mix-spin algorithm (up to 10 cycles), which reduces errors during sample preparation.

**Scope of supply:** Centrifuge, rotor for 2 PCR plates



Type	Movement type	PK	Cat. No.	Price EUR
MSC-2P	circling	1	4.708 897	<b>740.00</b>

## Spectrophotometers XD 7000 VIS and XD 7500 UV-VIS



XD 7000 VIS

UV-VIS and VIS spectrophotometers with dual beam optics. The instruments benefit from a barcode test recognition system, over 150 pre-programmed analytical methods and automatic cuvette detection. 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

### Specifications

#### Optical System:

Wavelength range:  
Bandwidth:  
Wavelength accuracy:  
Wavelength repeatability:  
Photometric range:  
Photometrical resolution/Transmission:

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

#### Internal Storage:

#### Lamps:

Dimension (W x D x H):

Weight:

Power supply:

Protection class:

0.001 Abs/0.1%  
0.003 Abs below 0.6 Abs  
40 MB for approx. 5000 data sets  
Tungsten-halogen-lamp // Xenon flash lamp  
422 x 323 x 195 mm  
approx. 4.5 kg  
100 - 240 V, 50/60 Hz  
IP 30

Type	PK	Cat. No.	Price
			EUR
XD 7000 VIS	1	6.272 436	4,423.80
XD 7500 UV-VIS	1	6.272 437	7,602.90

## Disposable cuvettes

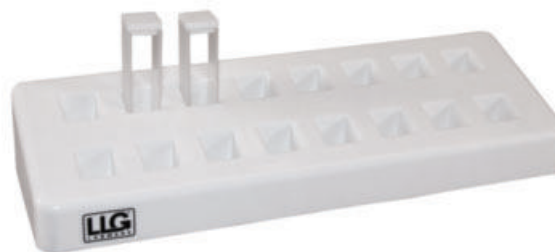
**Kartell**



Disposable cuvettes for spectroscopy, in optical-quality PS and UV grade PMMA with optical windows for optimum transmittance when using wavelengths from 340 nm to 800 nm (PS) and from 280 nm to 800 nm (PMMA). The range ±1% absorption, this is the vital when batch analysis is being undertaken.

Description	Capacity	Material	PK	Cat. No.	Price
	ml				EUR
Standard cuvettes	4.5	PS	100	9.406 431	19.56
Semi-micro cuvettes, low form	1.5	PS	100	9.406 432	20.16
Semi-micro cuvettes, high form	2.5	PS	100	9.406 433	20.08
Standard cuvettes, 4 clear faces	4.5	PS	100	9.406 434	8.22
Standard cuvettes	4.5	PMMA	100	9.406 435	28.20
Semi-micro cuvettes, high form	2.5	PMMA	100	9.406 436	27.48
Semi-micro cuvettes, low form	1.5	PMMA	100	9.406 437	31.84
Standard cuvettes, 4 clear faces	4.5	PMMA	100	9.406 438	24.72

## 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.	Price
mm	mm	mm			EUR
210	70	35	1	4.682 061	9.81



## Cold Light Source KL 1600 LED Package



- Suitable for photo documentation
- Very long service life

**SCHOTT**  
glass made of ideas



- Powerful illumination system with a brightness of 680 lm
- Ripple free illumination for digital imaging applications
- Colour temperature of 5.600 K does not change when the light source is dimmed

**Scope of supply:**

LED Cold light source KL 1600 LED incl. 2-armed gooseneck light guide, 2 focus lenses, according power cord

**Specifications**

Colour temperature:	5600 K
Light flux:	680 lm
Dimensions KL 1600 LED (W x D x H):	114 x 231 x 137 mm
Dimensions light guide (Ø x L):	4.5 x 600 mm
Weight:	3.9 kg
Power supply:	100 ... 240 V, 50/60 Hz

Type	Plug type	PK	Cat. No.	Price
KL 1600 LED Package	EU	1	4.666 289	<b>1,192.00</b>
				<b>EUR</b>

## Square cover slips



**epredia** Enhancing precision  
cancer diagnostics

Made of D263 M borosilicate glass. Accurate cutting free of flaws and blisters.

Width	Length	Thickness	PK	Cat. No.	Price
mm	mm	mm			<b>EUR</b>
15	15	0.13-0.16	200	9.161 015	<b>4.78</b>
20	20	0.13-0.16	200	9.161 020	<b>5.81</b>
22	22	0.13-0.16	200	9.161 022	<b>6.36</b>
24	24	0.13-0.16	200	9.161 024	<b>7.84</b>
20	20	0.13-0.16	100	9.161 019	<b>3.14</b>
22	22	0.13-0.16	100	9.161 023	<b>3.43</b>
24	24	0.13-0.16	100	9.161 025	<b>3.91</b>

## Microscope, RED 100



- Ideal For educational purposes
- Cost-effective

**Motic**  
MORE THAN MICROSCOPY

RED 100 Series, the ideal microscope series for pupils and students.

- Widefield eyepiece WF10X/18 mm, with pointer
- Cordless LED illumination 20 mA, 3.5 V, 70 mW with intensity control
- 10 years warranty
- Monocular head, 45° inclined, 360° rotating
- Reversed triple revolving nosepiece
- Achromatic objectives EA 4X, 10X, 40X S
- Coarse and fine focusing system with tension adjustment
- Side gliding stage, movable back and forth
- "one-touch" sample clips
- Built-in 0.65 N.A. condenser and iris diaphragm



Type	Description	PK	Cat. No.	Price
RED 100	Monocular	1	6.285 856	<b>276.00</b>
				<b>EUR</b>

## LLG-Hand tally counter



**LLG**  
LABWARE

Mechanical hand tally counter with a counting capacity of 9999 for counting, e.g. blood cells, or bacterial colonies.

Description	PK	Cat. No.	Price
LLG handpiece counter	1	6.328 021	<b>19.95</b>
			<b>EUR</b>

## Microscope slides



**epredia** Enhancing precision  
cancer diagnostics

According to ISO 8037/1. Prewashed and polished. Nominal thickness 1 mm. Size 76 x 26 mm. Also available with 20 mm, frosted, writing patch at one end.

Type	Description	Edge finish	PK	Cat. No.	Price
					<b>EUR</b>
Without frosted end	Extra white	Cut	50	9.161 110	<b>2.50</b>
With frosted end	Extra white	Cut	50	9.161 145	<b>3.50</b>
Without frosted end	Extra white	Ground 45°	50	9.161 120	<b>5.44</b>
With frosted end	Extra white	Ground 45°	50	6.050 042	<b>6.76</b>
Without frosted end	Extra white	Ground 90°	50	6.229 386	<b>5.15</b>
With frosted end	Extra white	Ground 90°	50	6.050 000	<b>4.53</b>

## Vacuum Ovens VO

Reliable, convenient and energy-efficient. Separately controllable and directly heated thermoshelves ensure precise temperature control and, thanks to the digital pressure control, the load is dried quickly and gently.

- Safety glass door with armoured glass on the inside and splinter shield on the outside
- Digital pressure control
- Directly heated and individually controllable thermoshelves
- With 2 thermoshelf connections
- Optional: Pump base cabinet and energy-efficient vacuum pump

### ControlCOCKPIT with two colour displays

**Scope of supply:** Vacuum drying oven, 1 aluminium thermoshelf, calibration certificate (for 160 °C at 20 mbar), software AtmoCONTROL

### Specifications

Working temperature range:	at least 5 above ambient to +200 °C
Setting temperature range:	20 °C to +200 °C
Setting accuracy:	up to 99.9: 0.1 °C/ from 100: 0.5 °C
Vacuum:	5 to 1100 mbar
Power supply:	230 V, 50/60 Hz



VO29

Type	Nom. capacity	Max. shelves	Included shelves	Internal dimensions (W x D x H) mm	External dimensions (W x D x H) mm	Rated capacity kW	Net weight kg	PK	Cat. No.	Price EUR
VO29	29	1	1	385 x 250 x 305	550 x 400 x 607	0.82	55	1	4.663 352	7,904.00
VO49	49	2	1	385 x 330 x 385	550 x 480 x 687	2.02	83	1	4.663 353	8,925.00
VO101	101	2	1	545 x 400 x 465	710 x 550 x 767	2.42	110	1	4.663 354	11,857.00

## Piston pump LLG-uniVACUUPUMP 1

The **portable** piston pump LLG-uniVACUUPUMP 1 has been developed for **vacuum and pressure applications** in the laboratory. The LLG-uniVACUUPUMP 1 operates oil-free and can also be used as a compressor to a pressure up to 3.3 bar. Not recommended for pumping organic, acidic or basic vapours.

### Advantages:

- Cost-effective alternative for water pumps
- Oil-free, suitable for continuous operation
- Suction/pressure connection: hose nozzle DN 6 for hose inner diameter 6 mm

**Scope of supply:** Pump, incl. 2 hose clamps, EU + UK-plug power cord



### Specifications

Pump speed 50/60 Hz at atmospheric pressure:	9.2/11 l/min
Final pressure:	292 mbar
Max. overpressure:	3.3 bar
Max. operating gas temperature:	60 °C
Permissible ambient temperature:	10 ... 40 °C
Suction/pressure connection:	DN 6
Dimensions (W x D x H):	194 x 114 x 191 mm
Weight:	2.0 kg
Power supply:	230 V/50 Hz
IP code:	IP 20
Warranty:	3 years

Type	PK	Cat. No.	Price EUR
LLG-uniVACUUPUMP 1	1	6.263 580	313.90

## Mini Diaphragm Vacuum Pumps LABOPORT®



For Filtration, SPE, Degassing, Fluid aspiration.

- PTFE-coated diaphragm is ideal for aggressive/corrosive gases and vapours
- Pump head made from PPS (Polyphenylsulfide), valves made from FFPM (Perfluoro rubber)

### Specifications

Connectors for tube:	ID6 mm
N 816.3 KT.18:	5 to 40 °C
Permissible media and ambient temperature:	Up to 1.8 m³/h
Flow rate:	Up to 20 mbar abs.
Ultimate vacuum:	IP 20
IP code:	

Type	Flow rate l / min.	Max. pressure bar	PK	Cat. No.	Price EUR
N 816.3 KT.18	16	0.5	1	7.620 376	889.00

## Moisture balances MB23 and MB25



The Moisture Analysers MB-23 and MB-25 provide stable results with 0.1% or 0.05% moisture resolution because of precision weighing technology. They are supplied with either an infra-red or halogen heating system. Applicable for most applications.

- Halogen (MB-25) or infra-red (MB23) technology
- Sample holder included in MB25 but as option in MB23
- Delivered with 50 x 90 mm aluminium sample dishes and protective cover

### Specifications

	<b>MB23 // MB25</b>
Capacity:	110 g
Repeatability 3 g/10 g:	0.3%/0.2% // 0.2%/0.05%
Readability:	0.1% or 0.01 g // 0.05% or 0.005 g
Timer:	1 ... 99 min, 30-second increments to 60 min
Temperature range:	50 ... 160 °C
Operating temperature:	5 ... 40 °C
Pan size (diam.):	90 mm
Dimensions (W x D x H):	170 x 130 x 280 mm
Net weight:	2.3 kg
Power supply:	100 - 240 V, 50/60 Hz

Type	PK	Cat. No.	Price
			<b>EUR</b>
MB23	1	9.947 604	<b>1,412.82</b>
MB25	1	9.947 605	<b>1,934.92</b>

## Hanging Scales HDB-N



Convenient for hanging loads.

- Ideal for quick checking in goods receiving and shipping, also suitable for cases
- Data hold function: For easy reading of the weight, the display can be "frozen" in different ways. Either automatically when the weighing value remains unchanged or manually by pressing the Hold key
- Hook (stainless steel), can be hinged
- Batteries included, 2 x 1.5 V AAA, operating time approx. 180 h



Type	Capacity	Readability	Weight	PK	Cat. No.	Price
	kg	g	g			<b>EUR</b>
HDB 5K5N	5	5	200	1	6.231 173	<b>62.00</b>

## Ioniser AD-1683A



Suitable for all scales



**New**

The ioniser can be used as a stand-alone unit with all balances from any manufacturer, making it a useful addition to any weighing environment. The positive and negative ions generated by the ioniser neutralise static charges almost immediately. The tungsten electrode needles maintain the ambient ion balance. The integrated IR sensor allows touchless ON/OFF control, making the removal of static charges even more efficient.

- Adjustable discharge time in either timer mode (3 s or 10 s) or manual mode (any time)
- No risk of contamination as the ioniser uses the direct current method and does not require a fan to discharge the ions
- External IR switch (AX-IR-SWITCH) optionally available (For switching the ioniser on and off close to hand.)

Type	PK	Cat. No.	Price
			<b>EUR</b>
AD-1683A	1	6.524 445	<b>1,228.87</b>
AX-IR-SWITCH	1	6.493 501	<b>256.62</b>

## Playing card rejects



Standard size for use as disposable sample carriers or spatulas. Pack size: 1 kg, not sorted.

Type	PK	Cat. No.	Price
			<b>EUR</b>
Unprinted and laminated on both sides	1	6.051 731	<b>12.40</b>

## Analytical balance ADT

**KERN**



- Internal adjustment
- Touch display

Analytical balance with flexible functionality and touch display for use in the pharmaceutical industry as well as other fields. Data query and remote control of the balance is carried out via computer or CRM/ERP systems using the KERN Communication Protocol.

- Backlit LCD display
- GLP/ISO record keeping
- RS 232 data interface and USB (Device)

**Scope of supply:** Analytical balance, draught shield

**New**



### Specifications

Readability:	0.0001 g
Automatic adjustment:	internal
Weighing surface (WxD):	Ø 90 mm
Plug type:	EU/UK/CH/US/AUS
Power supply:	100 ... 240 V, 50/60 Hz
Warranty:	3 years

Type	max. load	Plug type	PK	Cat. No.	Price
	g				EUR
ADT 100-4	120	EU/UK/CH	1	4.711 753	1,700.00
ADT 200-4	220	EU/UK/CH	1	4.711 754	1,900.00
ADT 300-4	320	EU/UK/CH	1	4.711 755	2,100.00

**Reagecon**

A CALIBRE SCIENTIFIC COMPANY

**Lab Unlimited**

CARL STUART GROUP

A CALIBRE SCIENTIFIC COMPANY

**Calibre**  
SCIENTIFIC

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**Labortops**

PARTNER OF  
**LLG**  
Laboratory Supply Solutions