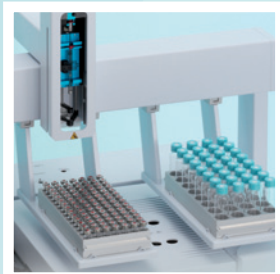


La-Pha-Pack®

PAL SYSTEM CONSUMABLES

PAL GC/GC-MS Sample Injector

PAL LC/LC-MS Sample Injector



Identify the appropriate La-Pha-Pack product for your PAL autosampler.

The brochure is divided in four fields of applications:

HPLC	With instrument(s):	LC  IFC  HTC  HTS 
GC	With instrument(s):	GC  COMBI 
HS	With instrument(s):	COMBI 
HTS	With instrument(s):	HTC  HTS 

Consumables listed in the individual chapters have been approved by CTC Analytics to be suitable for usage on the indicated type of the PAL autosampler. However, cost-free samples can be requested any time for testing.

All products of this brochure are standard products and thus normally deliverable ex stock. Our company policy prohibits supply to end-users. However, we will be glad to help any user in possession of an instrument of CTC Analytics with technical advice and samples. Upon request we can provide you with addresses of dealers that distribute our products.

The brochure includes only the most common products for PAL autosampler. You will find further seals and vials in our general catalogue, which you can request by visiting our website at www.la-pha-pack.com.

The brochure contains general consumables, like Vial Racks, Crimping Tools or Syringe Filters, that are required in connection with the analysis of samples, however, are independent from the instrument. Detailed information on these products can also be taken from our general catalogue.



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1. Short Thread ND9 (wide opening)



LC PAL

HTC PAL

HTS PAL



11 09 0500	11 09 0519	11 09 0520	PP 11 19 1205 11 19 1516	06 09 0357	06 09 0669	06 09 0865	06 09 0866
1.5ml Short Thread Vial, 32 x 11.6mm, clear glass, 1 st hydrol. class, wide opening	1.5ml Short Thread Vial, 32 x 11.6mm, clear glass, 1 st hydrol. class, wide opening, label + filling lines	1.5ml Short Thread Vial, 32 x 11.6mm, amber glass, 1 st hydrol. class, wide opening, label + filling lines	1.5ml PP Short Thread Vial, 32 x 11.6mm, transparent/amber with filling lines, slightly concave shaped bottom	0.1ml Micro-Insert, 31 x 6mm, clear glass, 15mm top	0.1ml Micro-Insert, 31 x 6mm, clear glass, 12mm top	0.1ml Micro-Insert, 29 x 5.7mm, clear glass, with assembled plastic spring	0.2ml Micro-Insert, 31 x 6mm, clear glass, flat bottom
SILANIZED: 11 09 1241		SILANIZED: 11 09 1242		SILANIZED: 06 09 1240		SILANIZED: 06 09 1343	
100 pcs. per PP-Box	100 pcs. per PP-Box	100 pcs. per PP-Box	100 pcs. per PE-Bag	10 x 100 pcs. per PP-Box	10 x 100 pcs. per PP-Box	10 x 100 pcs. per PP-Box	10 x 100 pcs. per PP-Box

11 09 0999	11 09 1957	11 09 0620	11 09 2275	TPX 11 14 1189	TPX 11 14 1655	PP 11 19 1706	PP 11 19 0932
Short Thread Vial with integrated 0.2ml Micro-Insert, 32 x 11.6mm clear glass, 1 st hydrol. class, with label + filling lines	Short Thread Vial with integrated 0.2ml Micro-Insert, 32 x 11.6mm, amber glass, 1 st hydrol. class, with label + filling lines	1.1ml Microliter Short Thread Vial ND9, 32 x 11.6mm, clear glass, 1 st hydrol. class	0.9ml Total Microliter Short Thread Vial ND9, 32 x 11.6mm, clear glass, 1 st hydrolytic class, residual volume <1µ	TopSert TPX Short Thread Vial, 32 x 11.6mm, clear, with integrated 0.2ml Glass Micro-Insert	TopSert TPX Short Thread Vial, 32 x 11.6mm, amber, with integrated 0.2ml Glass Micro-Insert	0.7ml PP Short Thread Micro-Vial, transparent, 32 x 11.6mm	0.3ml PP Short Thread Micro-Vial, transparent, 32 x 11.6mm
		SILANIZED: 11 09 2178		SILANIZED: 11 14 1265	SILANIZED: 11 14 1694		TPX: 11 19 1021
100 pcs. per PP-Box	100 pcs. per PP-Box	100 pcs. per PP-Box	100 pcs. per PP-Box	100 pcs. per PP-Box	100 pcs. per PP-Box	100 pcs. per PE-Bag	100 pcs. per PE-Bag

1. Short Thread ND9 (cont.)



LC **PAL**
HTC **PAL**
HTS **PAL**



Seal	Cap	with assembled Septa
09 15 0478	9mm PP Short Thread Screw Cap, transparent, centre hole	Natural Rubber red-orange/TEF transparent, 60° shore A, 1.0mm
09 15 0867	9mm PP Short Thread Screw Cap, blue, centre hole	
09 15 1176	9mm PP Short Thread Screw Cap, red, centre hole	RedRubber/PTFE beige, 45° shore A, 1.0mm
09 15 2011	9mm PP Short Thread Screw Cap, transparent, centre hole	
09 15 1819	9mm PP Short Thread Screw Cap, blue, centre hole	UltraClean Silicone white/PTFE red, 55° shore A, 1.0mm
09 15 2012	9mm PP Short Thread Screw Cap, red, centre hole	
09 15 0481	9mm PP Short Thread Screw Cap, transparent, centre hole	PTFE red/Silicone white/PTFE red, 45° shore A, 1.0mm
09 15 0838	9mm PP Short Thread Screw Cap, blue, centre hole	
09 15 1178	9mm PP Short Thread Screw Cap, red, centre hole	Silicone white/PTFE blue, 55° shore A, 1.0mm, with slit
09 15 0480	9mm PP Short Thread Screw Cap, transparent, centre hole	
09 15 0868	9mm PP Short Thread Screw Cap, blue, centre hole	Silicone white / PTFE red, pre-cut (Y) 55° shore A, 1.0mm
09 15 1177	9mm PP Short Thread Screw Cap, red, centre hole	
09 15 0852	9mm PP Short Thread Screw Cap, transparent, centre hole	Packaging Unit: 100 pcs. per PE-Bag
09 15 0869	9mm PP Short Thread Screw Cap, blue, centre hole	
09 15 1179	9mm PP Short Thread Screw Cap, red, centre hole	
09 15 2021	9mm PP Short Thread Screw Cap, transparent, centre hole	
09 15 2016	9mm PP Short Thread Screw Cap, blue, centre hole	

Upon request also available with black, yellow or green Short Thread Cap; also available in blue closed top version

Magnetic Short Thread Cap



Art. No.	Description Cap	Septa Material	Durometer	Thickn.
09 15 1907	PP Short Thread Cap, blue, 6mm centre hole, with firmly affixed magnetic cap, gold	Silicone white/PTFE red UltraClean	55° shore A	1.0mm

Packaging Unit: 100 pcs. per PE-Bag

LC/MS Short Thread Cap (One component closure – no bleeding)



Art. No.	Description Cap
09 08 2000	MS-Cap, 9mm Short Thread Cap, transparent with thinned penetration area + diaphragm

- One component closure – absolute no bleeding
- Inert
- Can be penetrated as a septa
- LC/GC MS certified
- Tight closure

Packaging Unit: 100 pcs. per PE-Bag

UltraBond™ Seals ND9 (Cap + Liner form an unseparatable unit, so that the liner cannot be pushed into the vial even with a blunt needle)



Art. No.	Description Cap	Septa Material	Durometer	Thickn.
09 04 1220	PP Short Thread Cap black, 6mm centre hole	Silicone white/PTFE red	45° shore A	1.3mm
09 04 1533	PP Short Thread Cap blue, 6mm centre hole	Silicone beige/PTFE white	45° shore A	1.3mm
09 04 1534	PP Short Thread Cap blue, 6mm centre hole	Silicone beige/PTFE white, with slit	45° shore A	1.3mm

Packaging Unit: 100 pcs. per PE-Bag

2. Snap Ring ND11 (wide opening)



LC **PAL**

HTC **PAL**

HTS **PAL**



We can also supply barcode labelled or pre-sealed Vials!

11 09 0627	11 09 0644	11 09 0645	06 09 0357	06 09 0669	06 09 0865	06 09 0866
1.5ml Snap Ring Vial, 32 x 11.6mm, clear glass, 1 st hydrol. class, wide opening	1.5ml Snap Ring Vial, 32 x 11.6mm, clear glass, 1 st hydrol. class, wide opening, label + filling lines	1.5ml Snap Ring Vial, 32 x 11.6mm, amber glass, 1 st hydrol. class, wide opening, label + filling lines	0.1ml Micro-Insert, 31 x 6mm, clear glass, 15mm top	0.1ml Micro-Insert, 31 x 6mm, clear glass, 12mm top	0.1ml Micro-Insert, 29 x 5.7mm, clear glass, with assembled plastic spring	0.2ml Micro-Insert, 31 x 6mm, clear glass, flat bottom
100 pcs. per PP-Box	100 pcs. per PP-Box	100 pcs. per PP-Box	SILANIZED: 06 09 1240		SILANIZED: 06 09 1343	
100 pcs. per PP-Box	100 pcs. per PP-Box	100 pcs. per PP-Box	10 x 100 pcs. per PP-Box	10 x 100 pcs. per PP-Box	10 x 100 pcs. per PP-Box	10 x 100 pcs. per PP-Box

11 14 1190	11 14 1656	11 19 0933	11 19 1217	11 19 1707	11 19 1022
TopSert TPX Snap Ring Vial, 32 x 11.6mm, clear, with integrated 0.2ml Glass Micro-Insert	TopSert TPX Snap Ring Vial, 32 x 11.6mm, amber, with integrated 0.2ml Glass Micro-Insert	0.3ml PP Snap Ring Micro-Vial, transparent, 32 x 11.6mm	0.3ml PP Snap Ring Micro-Vial, amber, 32 x 11.6mm	0.7ml PP Snap Ring Micro-Vial, transparent, 32 x 11.6mm, cylindrical Insert	0.3ml TPX Snap Ring Micro-Vial, crystal clear, 32 x 11.6mm
SILANIZED: 11 14 1266	SILANIZED: 11 14 1695				
100 pcs. per PP-Box	100 pcs. per PP-Box	100 pcs. per PE-Bag	100 pcs. per PE-Bag	100 pcs. per PE-Bag	100 pcs. per PE-Bag

Seal	Cap	with assembled Septa
11 15 0635	11 mm PE Snap Ring Cap transparent, centre hole	Natural Rubber red-orange/TEF transparent, 60° shore A, 1.0mm
11 15 1267	11 mm PE Snap Ring Cap blue, centre hole	
11 15 1323	11 mm PE Snap Ring Cap red, centre hole	RedRubber/PTFE beige, 45° shore A, 1.0mm
11 15 2106	11 mm PE Snap Ring Cap transparent, centre hole	
11 15 2107	11 mm PE Snap Ring Cap blue, centre hole	UltraClean Silicone white/PTFE red, 45° shore A, 1.3mm
11 15 0637	11 mm PE Snap Ring Cap transparent, centre hole	
11 15 1151	11 mm PE Snap Ring Cap blue, centre hole	PTFE red/Silicone white/PTFE red, 45° shore A, 1.0mm
11 15 1325	11 mm PE Snap Ring Cap red, centre hole	
11 15 0636	11 mm PE Snap Ring Cap transparent, centre hole	Silicone white/PTFE blue, 55° shore A, 1.0mm, cross-slitted
11 15 1268	11 mm PE Snap Ring Cap blue, centre hole	
11 15 1324	11 mm PE Snap Ring Cap red, centre hole	Silicone white/PTFE red, pre-cut (Y), 45° shore A, 1.3mm
11 15 0650	11 mm PE Snap Ring Cap transparent, centre hole	
11 15 1269	11 mm PE Snap Ring Cap blue, centre hole	with thinned penetration point
11 15 1326	11 mm PE Snap Ring Cap red, centre hole	
11 15 2045	11 mm PE Snap Ring Cap transparent, centre hole	Packaging Unit: 100 pcs. per PE-Bag
11 15 2047	11 mm PE Snap Ring Cap blue, centre hole	
11 08 1676	11 mm PE Push On Cap, blue	

Upon request also available with yellow or green Snap Ring Cap! Transparent and blue Snap Ring Caps also available in a soft PE quality! Snap Ring Vials can alternatively be crimped with Standard Aluminium Crimp Seals!

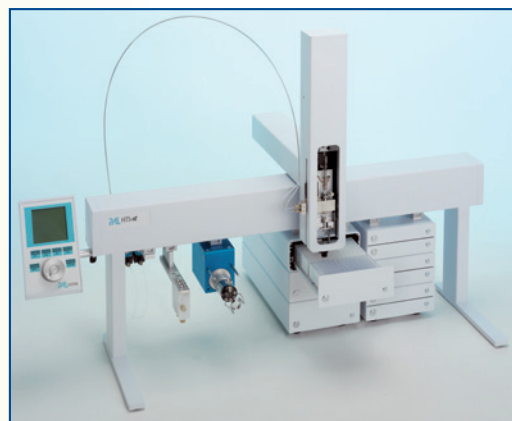
3. Screw Neck ND8 (small opening)



LC PAL

HTC PAL

HTS PAL



11 09 0210	11 09 0259	11 09 0419	11 09 0382	11 09 0417	05 09 0129	05 09 0269	05 09 1674	05 09 0968
1.5ml Screw Neck Vial, 32 x 11.6mm, clear glass, 1 st hydrol. class, small opening	1.5ml Screw Neck Vial, 32 x 11.6mm, amber glass, 1 st hydrol. class, small opening	1.5ml Screw Neck Vial, 32 x 11.6mm, clear glass, 1 st hydrol. class, small opening, label + filling lines	1.5ml Screw Neck Vial, 32 x 11.6mm, amber glass, 1 st hydrol. class, small opening, label + filling lines	1.1ml Micro-Vial, 32 x 11.6mm, clear glass, 1 st hydrol. class, conical	0.1ml Micro-Insert, 31 x 5mm, clear glass, 15mm top	0.1ml Micro-Insert, 31 x 5mm, clear glass, 9mm top	0.2ml Micro-Insert, 31 x 5mm, clear glass, 1 st hydrol. class, flat bottom	0.1ml Micro-Insert, 29 x 5mm, clear glass, with assembled plastic spring
100 pcs. per PP-Box	100 pcs. per PP-Box	100 pcs. per PP-Box	100 pcs. per PP-Box	100 pcs. per PP-Box	10 x 100 pcs. per PP-Box	10 x 100 pcs. per PP-Box	10 x 100 pcs. per PP-Box	10 x 100 pcs. per PP-Box

We can also supply barcode labelled or pre-sealed Vials!

Seal	Cap	with assembled Septa	Replacement Septa
08 15 0460	8mm Polypropylene Screw Cap, black, centre hole	Natural Rubber red-orange/TEF transparent, 60° shore A, 1.3mm	08 02 0355
08 15 1965	8mm Polypropylene Screw Cap, black, centre hole	RedRubber/PTFE beige, 45° shore A, 1.0mm	08 02 1966
08 15 0293	8mm Polypropylene Screw Cap, black, centre hole	UltraClean Silicone white/PTFE red, 45° shore A, 1.3mm	08 02 0103
08 15 1449	8mm Polypropylene Screw Cap, black, centre hole	Silicone white/PTFE red, with slit, 45° shore A, 1.3mm	
08 15 0294	8mm Polypropylene Screw Cap, black, centre hole	PTFE red/Silicone white/PTFE red, 45° shore A, 1.0mm	08 02 0005
Packaging Unit: 100 pcs. per PE-Bag			1000 pcs. per PE-Bag

Caps/Septa unassembled	Packaging Unit
08 08 0027	8mm Polypropylene Screw Cap, black, centre hole
08 02 0177	8mm Septa, PTFE virginal, 53° shore D, 0.25mm (only unassembled)
08 02 0039	8mm Septa, Silicone white/PTFE blue, 55° shore A, 0.9mm, with slit (only unassembled)

Upon request further Screw Seals with different septa and the following caps are available:

- black, closed top
- white, centre hole
- white, closed top

4. Screw Neck ND10 (wide opening)



LC PAL

HTC PAL

HTS PAL



10 09 0743	10 09 1196	10 09 1197	06 09 0357	06 09 0669	06 09 0865	06 09 0866
1.5ml Screw Neck Vial, 10-425 Thread, 32 x 11.6mm, clear glass, 1 st hydrol. class, wide opening	1.5ml Screw Neck Vial, 10-425 Thread, 32 x 11.6mm, clear glass, 1 st hydrol. class, wide opening, label + filling lines	1.5ml Screw Neck Vial, 10-425 Thread, 32 x 11.6mm, amber glass, 1 st hydrol. class, wide opening, label + filling lines	0.1ml Micro-Insert, 31 x 6mm, clear glass, 15mm top SILANIZED: 06 09 1240	0.1ml Micro-Insert, 31 x 6mm, clear glass, 12mm top	0.1ml Micro-Insert, 29 x 5.7mm, clear glass, with assembled plastic spring SILANIZED: 06 09 1343	0.2ml Micro-Insert, 31 x 6mm, clear glass, flat bottom
100 pcs. per PP-Box	100 pcs. per PP-Box	100 pcs. per PP-Box	10 x 100 pcs. per PP-Box	10 x 100 pcs. per PP-Box	10 x 100 pcs. per PP-Box	10 x 100 pcs. per PP-Box

We can also supply barcode labelled or pre-sealed Vials!

Seal	Cap	with assembled Septa	Replacement Septa
10 15 1256	10mm Polypropylene Screw Cap, black, centre hole	Natural Rubber red-orange/TEF transparent, 60° shore A, 1.3mm	09 02 1259
10 15 1257	10mm Polypropylene Screw Cap, black, centre hole	UltraClean Silicone white/PTFE red, 45° shore A, 1.3mm	09 02 1260
10 15 0744	10mm Polypropylene Screw Cap, black, centre hole	Silicone white/PTFE beige, 45° shore A, 1.5mm	09 02 0723
10 15 1258	10mm Polypropylene Screw Cap, black, centre hole	PTFE red/Silicone white/PTFE red, 45° shore A, 1.0mm	09 02 1261
10 15 1328	10mm Polypropylene Screw Cap, black, centre hole	Silicone white/PTFE blue, with slit, 55° shore A, 1.5mm	09 02 1327
Packaging Unit: 100 pcs. per PE-Bag			1000 pcs. per PE-Bag

Upon request further Seals are available as closed top version!

Caps/Septa unassembled		Packaging Unit
10 08 0742	10mm Polypropylene Screw Cap, black, centre hole	100 pcs. per PE-Bag
10 08 1899	10mm Polypropylene Screw Cap, black, closed top	100 pcs. per PE-Bag
10 02 0646	10mm Septa, PTFE virginal, 53° shore D, 0.25mm (only unassembled)	1000 pcs. per PE-Bag
09 02 0723	Silicone white/PTFE beige, 45° shore A, 1.5mm	1000 pcs. per PE-Bag

5. Crimp Neck ND11 (wide opening)



LC **PAL**
HTC **PAL**
HTS **PAL**



11 09 0356	11 09 0476	11 09 0477	11 09 0619	11 09 2276
1.5ml Crimp Neck Vial, 32 x 11.6mm, clear glass, 1 st hydrol. class, wide opening	1.5ml Crimp Neck Vial, 32 x 11.6mm, clear glass, 1 st hydrol. class, wide opening, label + filling lines	1.5ml Crimp Neck Vial, 32 x 11.6mm, amber glass, 1 st hydrol. class, wide opening, label + filling lines	1.1ml Microliter Crimp Neck Vial ND11, 32 x 11.6mm, clear glass, 1 st hydrol. class SILANIZED: 11 09 2177	0.9ml Total Microliter Snap Ring Vial ND11, 32 x 11.6mm, clear glass, 1 st hydrolytic class, residual volume <1µL
100 pcs. per PP-Box	100 pcs. per PP-Box	100 pcs. per PP-Box	100 pcs. per PP-Box	100 pcs. per PP-Box

11 09 0921	11 09 1956	06 09 0357	06 09 0669	06 09 0865	06 09 0866
Crimp Neck Vial with integrated 0.2ml Micro-Insert, 32 x 11.6mm, clear glass, 1 st hydrol. class, with label + filling lines	Crimp Neck Vial with integrated 0.2ml Micro-Insert, 32 x 11.6mm, amber glass, 1 st hydrol. class, with label + filling lines	0.1ml Micro-Insert, 31 x 6mm, clear glass, 15mm top SILANIZED: 06 09 1240	0.1ml Micro-Insert, 31 x 6mm, clear glass, 12mm top	0.1ml Micro-Insert, 29 x 5.7mm, clear glass, with assembled plastic spring SILANIZED: 06 09 1343	0.2ml Micro-Insert, 31 x 6mm, clear glass, flat bottom
100 pcs. per PP-Box	100 pcs. per PP-Box	10 x 100 pcs. per PP-Box	10 x 100 pcs. per PP-Box	10 x 100 pcs. per PP-Box	10 x 100 pcs. per PP-Box

Seal	Cap	with assembled Septa	Replacement Septa
11 03 0209	11mm Alum. Crimp Cap, clear lacq., centre hole	Natural Rubber red-orange/TEF transparent, 60° shore A, 1.0mm	11 02 0534
11 03 1875	11mm Alum. Crimp Cap, clear lacq., centre hole	RedRubber/PTFE beige, 45° shore A, 1.0mm	11 02 1876
11 03 0247	11mm Alum. Crimp Cap, clear lacq., centre hole	UltraClean Silicone white/PTFE red, 45° shore A, 1.3mm	11 02 0101
11 03 0196	11mm Alum. Crimp Cap, clear lacq., centre hole	PTFE red/Silicone white/PTFE red, 45° shore A, 1.0mm	11 02 0115
11 03 0464	11mm Alum. Crimp Cap, clear lacq., centre hole	Silicone white/PTFE blue, cross-slitted, 55° shore A, 1.5mm	11 02 0446
11 08 1676	11mm PE Push-On Cap, blue	with thinned penetration point	
Packaging Unit: 100 pcs. per PE-Bag			1000 pcs. per PE-Bag

11 06 0006	11 07 0002		12 21 1001	
11mm Crimper	11mm Decapper		Vial Rack, Acrylic, 173 x 95 x 20mm, 50 cavities with a diameter of 12mm	
1 pc. per PP-Box	1 pc. per PP-Box		1 pc.	

6. Crimp Neck ND8



COMBI PAL
GC PAL



08 09 0305	08 09 0258	08 09 0606	08 09 0276	08 09 0405	08 09 0406
0.7ml Micro-Vial, 40 x 7mm, clear glass, 1 st hydrol. class, conical	0.7ml Micro-Vial, 40 x 7 mm, amber glass, 1 st hydrol. class, conical	0.3ml Micro-Vial, 31.5 x 5.5mm, clear glass, 1 st hydrol. class, conical	0.3ml Micro-Vial, 31.5 x 5.5mm, clear glass, 1 st hydrol. class, round bottom	0.7ml Crimp Neck Vial, 40 x 7mm, clear glass, 1 st hydrol. class, flat bottom	0.7ml Crimp Neck Vial, 40 x 7mm, amber glass, 1 st hydrol. class, flat bottom
10 x 100 pcs. per PP-Box	10 x 100 pcs. per PP-Box	10 x 100 pcs. per PP-Box	10 x 100 pcs. per PP-Box	10 x 100 pcs. per PP-Box	10 x 100 pcs. per PP-Box

Seal	Cap	with assembled Septa
08 03 2042	8mm Aluminium Crimp Cap, clear lacquered, centre hole	RedRubber/PTFE beige, 45° shore A, 1.0mm
08 03 0249	8mm Aluminium Crimp Cap, clear lacquered, centre hole	UltraClean Silicone white/PTFE red, 45° shore A, 1.3mm
08 03 0113	8mm Aluminium Crimp Cap, clear lacquered, centre hole	PTFE red/Silicone white/PTFE red, 45° shore A, 1.0mm

Packaging Unit: 100 pcs. per PE-Bag

08 06 0005	08 07 0001	08 21 1000	02 17 0472	02 17 0473
8mm Crimper	8mm Decapper	Vial Rack, Acrylic, 173 x 95 x 20mm, 50 cavities with a diameter of 8.5/3mm	Universal Capillary Connector for 2 columns, for all columns with an ID of 0.20-0.53mm and an OD of 0.30-0.75mm	Universal Y Capillary Connector for 3 columns, for all columns with an ID of 0.20-0.53mm and an OD of 0.30-0.75mm
1 pc. per PP-Box	1 pc. per PP-Box	1 pc.	10 pcs. per PP-Box	1 pc. per PP-Box

7. Crimp Neck ND11 (wide opening)



COMBI PAL
GC PAL



11 09 0356

1.5ml
Crimp Neck Vial,
32 x 11.6mm,
clear glass,
1st hydrol. class,
wide opening

100 pcs. per PP-Box



11 09 0476

1.5ml
Crimp Neck Vial,
32 x 11.6mm,
clear glass,
1st hydrol. class,
wide opening,
label + filling lines

100 pcs. per PP-Box



11 09 0477

1.5ml
Crimp Neck Vial,
32 x 11.6mm,
amber glass,
1st hydrol. class,
wide opening,
label + filling lines

100 pcs. per PP-Box



11 09 0619

1.1ml Microliter
Crimp Neck Vial ND11,
32 x 11.6mm,
clear glass,
1st hydrol. class
SILANIZED:
11 09 2177

100 pcs. per PP-Box



11 09 2276

0,9ml Total Microliter Snap
Ring Vial ND11,
32 x 11.6mm,
clear glass,
1st hydrol. class,
residual volume <1µ

100 pcs. per PP-Box



11 09 0415

1.1ml
Micro-Vial,
32 x 11.6mm,
clear glass,
1st hydrol. class,
conical

100 pcs. per PP-Box



11 09 0921

Crimp Neck Vial
with integrated
0.2ml Micro-Insert,
32 x 11.6mm,
clear glass,
1st hydrol. class,
with label + filling lines

100 pcs. per PP-Box



11 09 1956

Crimp Neck Vial
with integrated
0.2ml Micro-Insert,
32 x 11.6mm,
amber glass,
1st hydrol. class,
with label + filling lines

100 pcs. per PP-Box



11 14 1190

TPX
TopSert
TPX Snap Ring Vial,
32 x 11.6mm,
clear, with integrated
0.2ml Glass Micro-Insert
SILANIZED:
11 14 1266

100 pcs. per PP-Box



11 14 1656

TPX
TopSert
TPX Snap Ring Vial,
32 x 11.6mm,
amber, with integrated
0.2ml Glass Micro-Insert
SILANIZED:
11 14 1695

100 pcs. per PP-Box



06 09 0357

0.1ml
Micro-Insert,
31 x 6mm,
clear glass,
15mm top

SILANIZED:
06 09 1240

10 x 100 pcs. per PP-Box



06 09 0669

0.1ml
Micro-Insert,
31 x 6mm,
clear glass,
12mm top

SILANIZED:
06 09 1343

10 x 100 pcs. per PP-Box



06 09 0865

0.1ml
Micro-Insert,
29 x 5.7mm,
clear glass,
with assembled
plastic spring

SILANIZED:
06 09 1343

10 x 100 pcs. per PP-Box



06 09 0866

0.2ml
Micro-Insert,
31 x 6mm,
clear glass,
flat bottom

SILANIZED:
06 09 1343

10 x 100 pcs. per PP-Box

Seal	Cap	with assembled Septa
11 03 1494	11 mm Magnetic Crimp Cap, gold, centre hole	Natural Rubber red-orange/TEF transparent, 60° shore A, 1.3mm
11 03 1988	11 mm Magnetic Crimp Cap, gold, centre hole	RedRubber/PTFE beige, 45° shore A, 1.0mm
11 03 0318	11 mm Magnetic Crimp Cap, gold, centre hole	UltraClean Silicone white/PTFE red, 45° shore A, 1.3mm
11 03 0332	11 mm Magnetic Crimp Cap, gold, centre hole	PTFE red/Silicone white/PTFE red, 45° shore A, 1.0mm

Packaging Unit: 100 pcs. per PE-Bag

8. Screw Neck ND18



COMBI PAL



Universal (Headspace + SPME)

18 09 1307 18 09 1311	18 09 1306 18 09 1310	18 03 1309	18 03 1414	18 03 1578	18 03 1874	18 03 2063	18 03 1416
20ml Screw Neck Vial ND18, 75.5 x 22.5mm, clear/amber glass, 1 st hydrol. class, with Precision Thread, rounded bottom	10ml Screw Neck Vial ND18, 46 x 22.5mm, clear/amber glass, 1 st hydrol. class, with Precision Thread, rounded bottom	<i>UltraClean-Seal</i> : 18mm Magn. Screw Cap, silver, 8mm centre hole; Silicone blue transp./ PTFE white, 45° shore A, 1.3mm	<i>UltraClean-Seal</i> : 18mm Magn. Screw Cap, silver, 8mm centre hole; Silicone white/PTFE blue, 55° shore A, 1.5mm	<i>UltraClean-Seal</i> : 18mm Magn. Screw Cap, silver, 8mm centre hole; Silicone white/PTFE red, 45° shore A, 1.3mm	18mm Magn. Universal-Screw Cap, open Top; Silicone white/ Aluminium Foil silver, 50° shore A, 1.3mm	<i>UltraClean-Seal</i> : 18mm Magn. Universal Screw Cap, silver, centre hole; Silicone white/PTFE red, 55° shore A, 1.5mm, pre-cut star (*)	18mm Magn. Screw Cap, silver, 8mm centre hole; Butyl red/PTFE grey, 55° shore A, 1.6mm
100 pcs. per PP-Box	100 pcs. per PP-Box	100 pcs. per PE-Bag	100 pcs. per PE-Bag	100 pcs. per PE-Bag	100 pcs. per PE-Bag	100 pcs. per PE-Bag	100 pcs. per PE-Bag
18 03 1666	18 03 1667	17 02 1417	17 02 1318	17 02 1580	17 02 1873	17 02 2062	17 02 1415
18mm Magn. Screw Cap, silver, closed top, Silicone white/PTFE red, 45° shore A, 1.3mm	18mm Magn. Screw Cap, silver, closed top, Butyl red/PTFE grey, 55° shore A, 1.6mm	Septa, Silicone blue transp./ PTFE white, 45° shore A, 1.3mm	Septa, Silicone white/PTFE blue, 55° shore A, 1.5mm	Septa, Silicone white/PTFE red, 45° shore A, 1.3mm	Septa, Silicone white/Alumi- nium foil silver, 50° shore A, 1.3mm	Septa, Silicone white/PTFE red, 55° shore A, 1.5mm, pre-cut star (*)	Septa, Butyl red/PTFE grey, 55° shore A, 1.6mm
100 pcs. per PE-Bag	100 pcs. per PE-Bag	1.000 pcs. per PE-Bag	1.000 pcs. per PE-Bag	1.000 pcs. per PE-Bag	1.000 pcs. per PE-Bag	1.000 pcs. per PE-Bag	1.000 pcs. per PE-Bag

- comparable results regarding tightness as with Crimp Neck Headspace Vials due to the precision thread that draws the septa tight against the vial
- reproducible results, as untightnesses due to crimping faults by incorrectly adjusted or non-adjustable crimpers are excluded
- samples can be taken and stored directly in the field in the analysis vial, so that a later sample transfer in the lab is unnecessary
- 8mm centre hole of the cap offers enough space for the SPME-Phase for a safe penetration
- *UltraClean* 1.3 / 1.5mm thick Silicone/PTFE septa offers good stability and excellent sealing at even high pressure in the vial

- thin and easy to penetrate Silicone/PTFE septa in different qualities
- alternatively 1.6mm thick, 55° shore A hard Butyl/PTFE septa as a less cost-intensive alternative for a lower temperature range and for uncritical analysis in the Headspace field
- no more transportation problems in the autosampler with incorrectly crimped vials
- more convenient and easier to open and to close
- can be used for Headspace analysis as well as for SPME application
- no additional costs for crimping tools
- time and energy saving closure technique
- 20ml Vials can be supplied in combination with a seal of your choice as 2in1 KITs

9. Crimp Neck ND20



COMBI PAL



HS

Standard (Headspace)				Special (SPME)	
20 09 0873	20 09 1690	20 09 1405	20 09 1691	20 09 1222	
20ml Headspace-Vial, 75.5 x 22.5mm, clear glass, 1 st hydrol. class, DIN-crimp neck, long neck, rounded bottom	20ml Headspace-Vial, 75.5 x 22.5mm, amber glass, 1 st hydrol. class, DIN-crimp neck, long neck, rounded bottom	10ml Headspace-Vial, 46 x 22.5mm, clear glass, 1 st hydrol. class, DIN-crimp neck, rounded bottom	10ml Headspace-Vial, 46 x 22.5mm, amber glass, 1 st hydrol. class, DIN-crimp neck, rounded bottom	20ml SPME Vial, 75.5 x 22.5mm, clear glass, 1 st hydrol. class, rounded bottom, special crimp neck	
100 pcs. per PP-Box	100 pcs. per PP-Box	100 pcs. per PP-Box	100 pcs. per PP-Box	100 pcs. per PP-Box	
20 03 0665*		20 03 0975		20 03 1536	20 03 1246
UltraClean-Seal: 20mm Magn. Crimp Cap, special alloy, gold lacquered, 5mm centre hole; Silic. blue trans./PTFE trans., 45° shore A, 3.0mm		UltraClean-Seal: 20mm Magn. Crimp Cap, special alloy, gold lacquered, 8mm centre hole; Silic. blue trans./PTFE trans., 45° shore A, 3.0mm		UltraClean-Seal: 20mm Magn. Bimetal-Crimp Cap, red lacquered, 8mm centre hole; Silic. blue trans./PTFE trans., 45° shore A, 3.0mm	UltraClean-Seal: 20mm Magn. Crimp Cap, special alloy, gold lacquered, 8mm centre hole; Silicone white/PTFE blue, 55° shore A, 1.5mm
100 pcs. per PE-Bag		100 pcs. per PE-Bag		100 pcs. per PE-Bag	100 pcs. per PE-Bag
20 02 2054				20 02 1244	20 02 1263
UltraClean Closure: 20mm Septa, Silicone transparent blue/PTFE transparent, 45° shore A, 3.0mm				20mm Septa, Silicone white/PTFE blue, 55° shore A, 1.5mm	20mm Septa, Viton 1A black, 70° shore A, 1.0mm
Packaging Unit: 1000 pcs. per PE-Bag					

* only suitable for the following autosamplers: Carlo Erba HS500/HS800, CTC 500, Fisons HS500/HS800, Varian/Chrompack 9020/25

20 06 0008 20mm Crimper	20 07 0004 20mm Decapper		20 06 2229 20mm Crimper, made of stainless steel, sterilizable for cleanroom applications	20 06 2230 20mm Decapper, made of stainless steel, sterilizable for cleanroom applications	
1 pc. per PP-Box	1 pc. per PP-Box		1 pc. per PP-Box	1 pc. per PP-Box	

All stainless steel crimping tools also available in 8mm, 11mm and 13mm.

9. Crimp Neck ND20 (cont.)

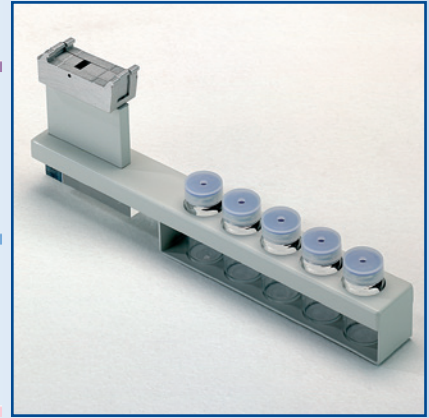




LC **PAL**

HTC **PAL**

HTS **PAL**

GC **PAL** COMBI **PAL**



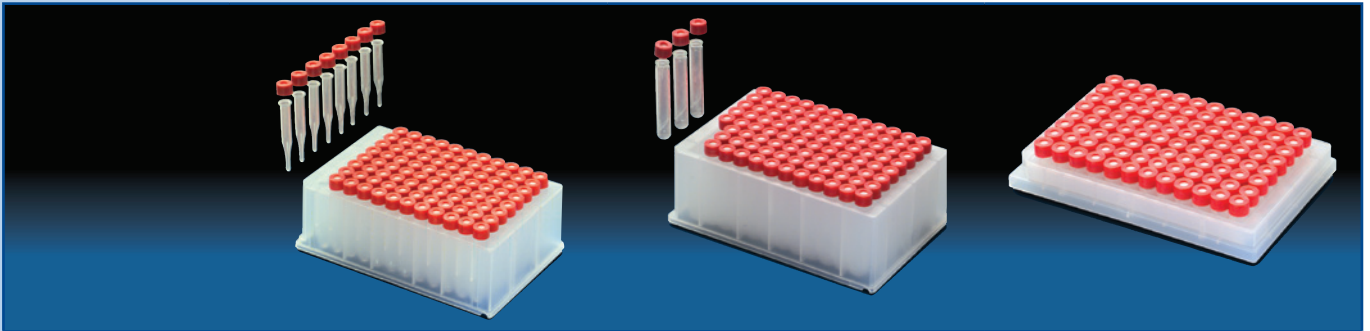
Washer Bottle		Washer Bottle	
			
20 09 1822		20 09 1405	
100ml Crimp Neck Vial, 49 x 75mm, clear glass, 1 st hydrolytic class, DIN-Crimp Neck		10ml Headspace-Vial, 46 x 22.5mm, clear glass, 1 st hydrolytic class, DIN-Crimp Neck, rounded bottom	
4 pcs. in a cardboard box		100 pcs. per PP-Box	
22 15 1824	22 15 1869	22 15 1334	
22mm Combination Seal: PE Cap, transparent, centre hole, cap height 9.1mm; Silicone transparent blue/PTFE white, 45° shore A, 1.3mm, Y-slitted	22mm Combination Seal: PE Cap, transparent, 6mm centre hole, cap height 9.1mm; Silicone transparent blue/PTFE white, 45° shore A, 1.3mm, Y-slitted	22mm Combination Seal: PE Cap, transparent, centre hole, cap height 9.1mm; Silicone transparent blue/PTFE white, 45° shore A, 1.3mm	
100 pcs. per PE-Bag			



10. 96 Position Block Systems



HTS **PAL**
HTC **PAL**



Filled Block	08 20 0897	08 20 0911	08 20 0943
Deep Well Block „riplate“, PP, 96 Positions (RITTER), filled with 0.35ml DW-Micro-Insert, 42.5 x 6mm, clear glass, 17mm top, with assembled 9mm PE Cap red, 9 x 5.9mm, 4mm centre hole, Silicone white/PTFE red, with slit, 45° shore A, 1.9mm	08 05 0890 + 08 14 0889	Square Well Block „riplate“, PP, 96 Positions (RITTER), filled with 1ml SQW-Micro-Insert, 45.9 x 7.6mm, clear glass, round bottom, with assembled 9mm PE Cap red, 9 x 5.9mm, 4mm centre hole, Silicone white/PTFE red, with slit, 45° shore A, 1.9mm	08 05 0894 + 08 14 0910
Micro-Insert + Seal	08 14 0889	08 14 0910	08 14 0876
0.35ml DW-Micro-Insert, 42.5 x 6mm, clear glass, 17mm top, with assembled 9mm PE Cap red, 9 x 5.9mm, 4mm centre hole, Silicone white/PTFE red, with slit, 45° shore A, 1.9mm	08 09 0888 + 09 15 0763	1ml SQW-Micro-Insert, 45.9 x 7.6mm, clear glass, round bottom, with assembled 9mm PE Cap red, 9 x 5.9mm, 4mm centre hole, Silicone white/PTFE red, with slit, 45° shore A, 1.9mm	0.1ml MTP-Micro-Insert, 15.5 x 5.7mm, clear glass, flat bottom, with assembled 9mm PE Cap red, 9 x 5.9mm, 4mm centre hole, Silicone white/PTFE red, with slit, 45° shore A, 1.9mm
	08 09 0909 + 09 15 0763		08 09 0875 + 09 15 0763
Micro-Insert	08 09 0888	08 09 0909	08 09 0875
0.35ml DW-Micro-Insert, 42.5 x 6mm, clear glass, 17mm top		1ml SQW-Micro-Insert, 45.9 x 7.6mm, clear glass, round bottom	0.1ml MTP-Micro-Insert, 15.5 x 5.7mm, clear glass, flat bottom
Seal	09 15 0763	09 15 0763	09 15 0763
9mm PE Cap red, 9 x 5.9mm, 4mm centre hole, Silicone white/PTFE red, with slit, 45° shore A, 1.9mm		9mm PE Cap red, 9 x 5.9mm, 4mm centre hole, Silicone white/PTFE red, with slit, 45° shore A, 1.9mm	9mm PE Cap red, 9 x 5.9mm, 4mm centre hole, Silicone white/PTFE red, with slit, 45° shore A, 1.9mm
Block	08 05 0890	08 05 0894	08 05 0944
Deep Well Block „riplate“, Polypropylene, 96 Positions (RITTER)		Square Well Block „riplate“, Polypropylene, 96 Positions (RITTER)	Microtiter-Plate, Polypropylene, 96 Positions (RITTER)

11. General Consumables

17mm HPLC Syringe Filters, 25mm ProFill HPLC Syringe Filters and 30mm HPLC Syringe Filters with Glass Fibre Prefilter

17 16 2076	17 16 2077	17 16 2078	17 16 2079	17 16 2080	17 16 2081	17 16 2082	17 16 2083
17mm HPLC Syringe Filter PTFE, 0.2µm, Injection-moulded ring blue + Print of the membrane type	17mm HPLC Syringe Filter PTFE, 0.45µm, Injection-moulded ring yellow + Print of the membrane type	17mm HPLC Syringe Filter Regenerated Cellulose (RC), 0.2µm, Injection-moulded ring grey + Print of the membrane type	17mm HPLC Syringe Filter Regenerated Cellulose (RC), 0.45µm, Injection-moulded ring brown + Print of the membrane type	17mm HPLC Syringe Filter Nylon (PA), 0.2µm, Injection-moulded ring purple + Print of the membrane type	17mm HPLC Syringe Filter Nylon (PA), 0.45µm, Injection-moulded ring green + Print of the membrane type	17mm HPLC Syringe Filter Glass Fibre Prefilter/PVDF 0.2µm, Injection-moulded ring black + Print of the membrane type	17mm HPLC Syringe Filter Glass Fibre Prefilter/PVDF 0.45µm, Injection-moulded ring red + Print of the membrane type
Hydrophobic (water repellent)	Hydrophobic (water repellent)	Hydrophilic	Hydrophilic	Hydrophilic	Hydrophilic	Hydrophilic	Hydrophilic
100 pcs. per PE-Bag, add. packed in a blue PP-Box							

25 16 0346	25 16 0347	25 16 0348	25 16 0349	25 16 0350	25 16 0351
25mm HPLC Syringe Filter, PTFE, green, 0.20µm	25mm HPLC Syringe Filter, PTFE, natural, 0.45µm	25mm HPLC Syringe Filter, Regenerated Cellulose (RC), blue, 0.20µm	25mm HPLC Syringe Filter, Regenerated Cellulose (RC), yellow, 0.45µm	25mm HPLC Syringe Filter, Nylon (PA), bright blue, 0.20µm	25mm HPLC Syringe Filter, Nylon (PA), bright green, 0.45µm
100 pcs. per PE-Bag add. packed in a blue PP-Box	100 pcs. per PE-Bag add. packed in a blue PP-Box	100 pcs. per PE-Bag add. packed in a blue PP-Box	100 pcs. per PE-Bag add. packed in a blue PP-Box	100 pcs. per PE-Bag add. packed in a blue PP-Box	100 pcs. per PE-Bag add. packed in a blue PP-Box
100 pcs. per PE-Bag, add. packed in a blue PP-Box					

30 16 2086	30 16 2087	30 16 2088	30 16 2089	30 16 2090	30 16 2091	30 16 2092	30 16 2093
30mm HPLC Syringe Filter Glass Fibre Prefilter/ PTFE, 0.2µm, Injection-moulded ring blue + Print of the membrane type	30mm HPLC Syringe Filter Glass Fibre Prefilter/ PTFE, 0.45µm, Injection-moulded ring yellow + Print of the membrane type	30mm HPLC Syringe Filter Glass Fibre Prefilter/ Regenerated Cellulose (RC), 0.2µm, Injection-moulded ring grey + Print of the membrane type	30mm HPLC Syringe Filter Glass Fibre Prefilter/ Regenerated Cellulose (RC), 0.45µm, Injection-moulded ring brown + Print of the membrane type	30mm HPLC Syringe Filter Glass Fibre Prefilter/ Nylon (PA), 0.2µm, Injection-moulded ring purple + Print of the membrane type	30mm HPLC Syringe Filter Glass Fibre Prefilter/ Nylon (PA), 0.45µm, Injection-moulded ring green + Print of the membrane type	30mm HPLC Syringe Filter Glass Fibre Prefilter/ PVDF 0.2µm, Injection-moulded ring black + Print of the membrane type	30mm HPLC Syringe Filter Glass Fibre Prefilter/ PVDF 0.45µm, Injection-moulded ring red + Print of the membrane type
Hydrophobic (water repellent)	Hydrophobic (water repellent)	Hydrophilic	Hydrophilic	Hydrophilic	Hydrophilic	Hydrophilic	Hydrophilic
100 pcs. per PE-Bag, add. packed in a blue PP-Box							

GC Injection Port Septa

07 18 0935	09 18 0936	10 18 0937	11 18 0938	12 18 0939	17 18 0940
Shimadzu Plug, transparent	9.5mm Universal HT Injection Port Septa, transparent	10mm Universal HT Injection Port Septa, transparent	11mm Universal HT Injection Port Septa, transparent	12.5mm Universal HT Injection Port Septa, transparent	17mm Universal HT Injection Port Septa, transparent
25 pcs. in an amber Screw Neck Vial	25 pcs. in an amber Screw Neck Vial	25 pcs. in an amber Screw Neck Vial	25 pcs. in an amber Screw Neck Vial	25 pcs. in an amber Screw Neck Vial	25 pcs. in an amber Screw Neck Vial
Shimadzu, all models	Agilent (HP), 5700/5880 Series Varian, Injector Type: Packed Columns Varian (CP), all models Tracor, 550, 560 Gow-Mac, all models Finnigan, 9001, QCQ™ Antek Unicam, 4600	Agilent (HP), 5890/6890 Series 5700/5880 Series Varian, Injector Type: Packed Columns Injector Type: Split/Splitless	Agilent (HP), 5890/6890 Series 5880A Series Varian, 3300, 3400, 3500, 3600, 3700, Vista (Split/Splitless) Perkin Elmer, Sigma Series, 900, 990 8000 Series Autosys	Tracor, 220, 222	ThermoQuest, Trace Fisons/Carlo Erba 8000 Series

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