

La-Pha-Pack[®]

Werner Reifferscheidt GmbH

Consumables for Perkin Elmer



CRIMP NECK ND8



Consumables for

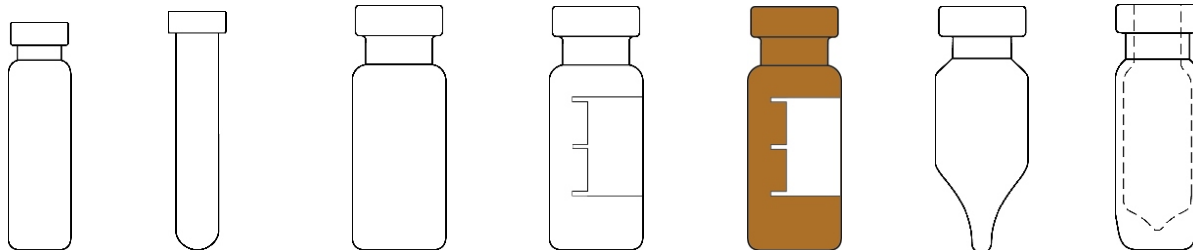
Perkin Elmer

Perkin Elmer ISS-200
Perkin Elmer Series 200
Perkin Elmer ISS-100
Integral 4000
LC-600

CRIMP NECK ND11

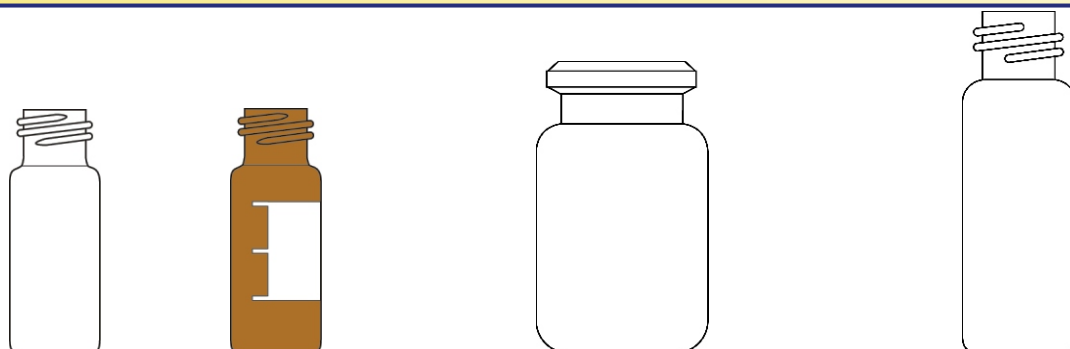


1 : 1
Drawings



LPP Art.-No.	08 09 0284	08 09 0276	11 09 0356	11 09 0476	11 09 0477	11 09 0415	11 09 0619
See PE Art.-No.	N9301069	119302136 (N9302136)	119301385/100 (N9301385) 119307017/500		119302137/100 (N9302680) 119307018/500	119302137 (N9302137)	
LPP Art.-Description	0.8ml Crimp Neck Vial, 30 x 8.2mm, clear glass, 1 st hydrol. class	0.3ml Micro-Vial, 31.5 x 5.5mm, clear glass, 1 st hydrol. class, round bottom	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 Micro-Vial, 32 x 11.6mm, clear glass, 1 st hydrol. class, conical	1.1ml Microliter Crimp Neck Vial ND11, 32 x 11.6mm, clear glass, 1 st hydrol. class
LPP Packaging Unit	100 pieces per PP-Box	10 x 100 pieces per PP-Box	100 pieces per PP-Box	100 pieces per PP-Box	100 pieces per PP-Box	100 pieces per PP-Box	100 pieces per PP-Box

1 : 1
Drawings



LPP Art.-No.	10 09 0743	10 09 1197	20 09 0342	13 09 0222
See PE Art.-No.	119306053 (N9306053)	119306057	119302134 (N9302134)	09923031 Waste +Wash Vial
LPP Art.-Description	1.5ml Screw Neck Vial, 32 x 11.6mm, clear glass, 1 st hydrol. class, wide opening	1.5ml Screw Neck Vial, 32 x 11.6mm, amber glass, 1 st hydrol. class, wide opening, label + filling lines	5ml Headspace-Vial, 38.2 x 22mm, clear glass, 1 st hydrol. class, rounded bottom	4ml Screw Neck Vial, 45 x 14.75mm, clear glass, 1 st hydrol. class,
LPP Packaging Unit	100 pieces per PP-Box	100 pieces per PP-Box	100 pieces per PP-Box	100 pieces per PP-Box

HPLC

Consumables for

Perkin Elmer

Seals for Crimp Neck ND8 (with assembled Septum)

08 03 0268	119302140 (N9302140)	8mm Alu. Crimp Cap, clear lacq., centre hole; PTFE virginal, 53° shore D, 0.25mm
08 03 0200	alt. 03300806	8mm Alu. Crimp Cap, clear lacq., centre hole; Natural Rubber red-orange/Butyl red/TEF transp., 45° shore A, 1.0mm
08 03 0451	alt. 03300806	8mm Alu. Crimp Cap, clear lacq., centre hole; Natural Rubber red-orange/TEF transparent, 60° shore A, 1.0mm
08 03 0249		8mm Alu. Crimp Cap, clear lacq., centre hole; UltraClean Silicone white/PTFE red, 45° shore A, 1.3mm
08 03 0113		8mm Alu. Crimp Cap, clear lacq., centre hole; PTFE red/Silicone white/PTFE red, 45° shore A, 1.0mm
09 15 0753	alt. 119302141 (N9302141)	9mm PE Cap, transparent, centre hole, Natural Rubber red-orange/TEF transparent, 60° shore A, 1.3mm for Crimp Neck ND8; Further 8mm Aluminium Crimp Seals with different Septa are available!

Packaging Unit: 100 pieces per PE-Bag

Seals for Crimp Neck ND11 (with assembled Septum)

11 03 0339	alt. 119302686 alt. 119302684 alt. 119302685	11mm Alu. Crimp Cap, clear lacquered, centre hole, PTFE virginal, 53° shore A, 0.25mm with roll groove;
11 03 0300	alt. N9306015	11mm Alu. Crimp Cap, clear lacquered, centre hole; Natural Rubber red-orange/Butyl red/TEF transp., 45° shore A, 1.0mm
11 03 0209	alt. N9306015	11mm Alu. Crimp Cap, clear lacquered, centre hole; Natural Rubber red-orange/TEF transparent, 60° shore A, 1.0mm
11 03 0247		11mm Alu. Crimp Cap, clear lacquered, centre hole; UltraClean Silicone white/PTFE red, 45° shore A, 1.3mm

Further 11mm Aluminium Crimp Seals with different Septa or with Crimp Caps in different colours are available!

Packaging Unit: 100 pieces per PE-Bag

Seals for Screw Neck ND10 (with assembled Septum)

10 15 1256		10mm PP Screw Cap, black, centre hole; Natural Rubber red-orange/TEF transparent, 60° shore A, 1.3mm
10 15 1257		10mm PP Screw Cap, black, centre hole; UltraClean Silicone white/PTFE red, 45° shore A, 1.3mm
10 15 0744		10mm PP Screw Cap, black, centre hole; Silicone white/PTFE beige, 45° shore A, 1.5mm
10 15 1328	alt. 119306052 (N9306052)	10mm PP Screw Cap, black, centre hole; Silicone white/PTFE blue, with slit, 55° shore A, 1.5mm
10 15 1258		10mm PP Screw Cap, black, centre hole; PTFE red/Silicone white/PTFE red, 45° shore A, 1.0mm

Packaging Unit: 100 pieces per PE-Bag

Crimping Tools

08 06 0005	08 07 0001		11 06 0006	11 07 0002
			00090699	119301390
8mm Crimper	8mm Decapper		11mm Crimper	11mm Decapper
1 piece per PP-Box	1 piece per PP-Box		1 piece per PP-Box	1 piece per PP-Box

Vial Racks

08 21 1000		12 21 1001
		119301303 (N9301303)
Vial Rack, Acrylic (173 x 95 x 20mm), 50 cavities with a diameter of 8.5/3mm		Vial Rack, Acrylic, (173 x 95 x 20mm), 50 cavities with a diameter of 12mm
1 piece		1 piece



CRIMP NECK ND8



Consumables for

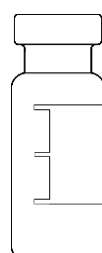
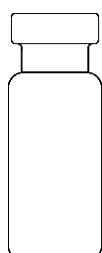
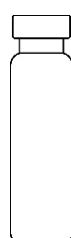
Perkin Elmer

Clarus 500 GC
Autosystem / Autosystem XL
AS-100, AS-100B
AS-300,
AS8300
AI-1

CRIMP NECK ND11



1 : 1
Drawings



LPP Art.-No.	08 09 0284	08 09 0276	11 09 0356	11 09 0476	11 09 0477	06 09 0865	11 09 0619
See PE Art.-No.	N9301069	119302136 (N9302136)	119301385 (N9301385)		119302680 (N9302680)	alt. N9302681 + N9302682	
LPP Art.-Description	0.8ml Crimp Neck Vial, 30 x 8.2mm, clear glass, 1 st hydrol. class	0.3ml Micro-Vial, 31.5 x 5.5mm, clear glass, 1 st hydrol. class, round bottom	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	0.1ml Micro-Insert, 28 x 6mm, clear glass, with assembled plastic spring	1.1ml Microliter Crimp Neck Vial ND11, 32 x 11.6mm, clear glass, 1 st hydrol. class
LPP Packaging Unit	100 pieces per PP-Box	10 x 100 pieces per PP-Box	100 pieces per PP-Box	100 pieces per PP-Box	100 pieces per PP-Box	10 x 100 pieces per PP-Box	100 pieces per PP-Box

GC

Crimpers

08 06 0005	08 07 0001		11 06 0006	11 07 0002
			00090699	119301390
8mm Crimper	8mm Decapper		11mm Crimper	11mm Decapper
1 piece per PP-Box	1 piece per PP-Box		1 piece per PP-Box	1 piece per PP-Box

1 : 1
Drawing



Vial Racks

08 21 1000		12 21 1001
		119301303 (N9301303)
Vial Rack, Acrylic (173 x 95 x 20mm), 50 cavities with a diameter of 8.5/3mm		Vial Rack, Acrylic (173 x 95 x 20mm), 50 cavities with a diameter of 12mm
1 piece		1 piece

LPP Art.-No. 13 09 0222

See PE Art.-No. 09923031
(Waste + Wash Vial)

LPP Art.-Description 4ml
Screw Neck Vial,
45 x 14.75mm,
clear glass,
1st hydrol. class

LPP Packaging Unit 100 pieces
per PP-Box

Consumables for

Perkin Elmer

Seals for Crimp Neck ND8 (with assembled Septum)

08 03 0200	alt. 03300806	8mm Alu. Crimp Cap, clear lacquered, centre hole; Natural Rubber red-orange/Butyl red/TEF transp., 45° shore A, 1.0mm
08 03 0249		8mm Alu. Crimp Cap, clear lacquered, centre hole; UltraClean Silicone white/PTFE red, 45° shore A, 1.3mm
08 03 0113		8mm Alu. Crimp Cap, clear lacquered, centre hole; PTFE red/Silicone white/PTFE red, 45° shore A, 1.0mm
Further 8mm Aluminium Crimp Seals with different Septa are available!		
Packaging Unit: 100 pieces per PE-Bag		

Seals for Crimp Neck ND11 (with assembled Septum)

11 03 0339	alt. 119302686 alt. 119302684 alt. 119302685	11mm Alu. Crimp Cap, clear lacquered, centre hole; PTFE virginial, 53° shore A, 0.25mm with roll groove
11 03 1641	alt. N9306015	11mm Alu. Crimp Cap, clear lacquered, centre hole; Butyl red/PTFE grey, 55° shore A, 1.3mm
11 03 0300	alt. 119306015 (N9306015)	11mm Alu. Crimp Cap, clear lacquered, centre hole; Natural Rubber red-orange/Butyl red/TEF transp., 45° shore A, 1.0mm
11 03 0209	alt. 119306015 (N9306015)	11mm Alu. Crimp Cap, clear lacquered, centre hole; Natural Rubber red-orange/TEF transparent, 60° shore A, 1.0mm
11 03 0720	119302784	11mm Alu. Crimp Cap, clear lacquered, centre hole; Viton black, 70° shore A, 1.0mm
11 03 0247		11mm Alu. Crimp Cap, clear lacquered, centre hole; UltraClean Silicone white/PTFE red, 45° shore A, 1.3mm
Further 11mm Aluminium Crimp Seals with different Septa or with Crimp Caps in different colours are available!		
Packaging Unit: 100 pieces per PE-Bag		

09 18 0936	Comparable with:	02 17 0472	
For Model 226 GC		Universal Capillary Connector for 2 columns	
9.5mm Universal HT Injection Port Septum, Silicone transparent	02261144	10 pieces per PP-Box	
25 pieces in an amber Screw Neck Vial		02 17 0473	
11 18 0938	Comparable with:	Universal Y-Capillary Connector for 3 columns	
For all Injectors		1 piece per PP-Box	
11mm Universal HT Injection Port Septum, Silicone transparent	N9302972 N6621028 N9303343 54019985		
25 pieces in an amber Screw Neck Vial			

GC Injection Port Septa

	
We can also supply Barcode labelled or pre-sealed vials!	Any combination of 1.5ml Vials with appropriate seals can be supplied as 2in1 KIT!

HEADSPACE ND20

Consumables for

Perkin Elmer

TurboMatrix HS 16,
TurboMatrix HS 40,
TurboMatrix HS 40XL, HS 40Trap,
TurboMatrix HS 110, HS 110 Trap
Perkin Elmer HS 6, HS 40,
Perkin Elmer HS 100/101,
Perkin Elmer HS 110



1 : 1 Drawings					
LPP Art.-No.	20 09 0342	20 09 0297 / 20 09 1223		20 09 0440	18 09 0864
See PE Art.-No.	N9302134	B0104236			
LPP Art.-Description	5ml Headspace-Vial, 38.2 x 22mm, clear glass 1 st hydrol. class, rounded bottom	20ml Headspace-Vial, 75.5 x 23mm, clear glass 1 st hydrol. class, rounded bottom	20ml Headspace-Vial, 75.5 x 23mm, amber glass 1 st hydrol. class, rounded bottom	20ml Headspace-Vial, 75.5 x 23mm, clear glass 1 st hydrol. class, rounded bottom, label + filling lines	20ml Headspace-Vial, 75.5 x 23mm, clear glass 1 st hydrol. class, rounded bottom, w. Screw Neck ND18
LPP Packaging Unit	100 pieces per PP-Box	100 pieces per PP-Box	100 pieces per PP-Box	100 pieces per PP-Box	100 pieces per PP-Box

As Headspace-Vials have to withstand high internal pressure, all illustrated vials have a wall thickness of 1.2mm. Thus it is guaranteed that the vial will not burst. Contrary to a widely spread opinion the seal - and not the vial - represents the weakest part of the whole system. Under pressure the septa will bulge against the Aluminium Cap with such a force that the cap is torn apart. By own testing we varified that e.g. our vials can easily withstand 10 bars or more, while the seal is torn apart around 10 bars when no pressure release system - like our Headspace Cap - is used.

20 06 0008	20 07 0004
N9302785	N9301270
20mm Crimper	20mm Decapper
1 piece per PP-Box	1 piece per PP-Box



24 21 1002
See N9301304
Vial Rack, Acrylic, (160 x 160 x 30mm), 25 cavities with a diameter of 24mm
1 piece

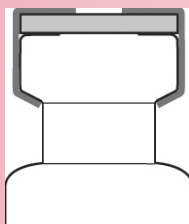


SH

HEADSPACE ND20

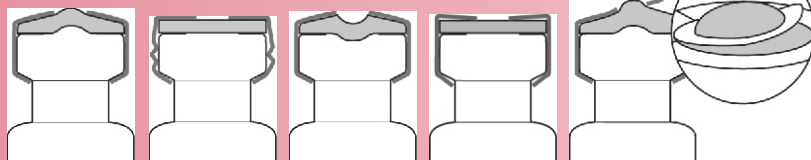
Consumables for

Perkin Elmer



Correct Crimp

As the liners vary strongly in their total thicknesses, it is essential to use a crimper, that is **adjustable in crimping height** (screw up or down the inner part of the crimping head with a hexagon key) **and in crimping pressure** (Screw in the handle).



overcrimped
Adjust crimping
pressure + crimping
height!

overcrimped
Adjust crimping
height!

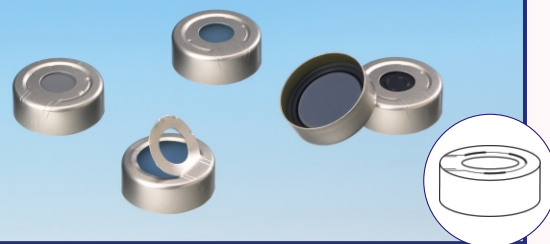
overcrimped
Adjust crimping
pressure!

undercrimped
Adjust crimping
pressure +
crimping
height!

overcrimped
Adjust crimping pressure + crimping
height!

In case of overcrimping of Headspace-Caps the bridges of the scorelines suffer and may break open even at low internal pressure (less than 3 bars) or may even tear apart beside the scorelines.

Headspace-Caps



These caps have the function of a pressure release cap and are designed with special scorelines that break open at an internal vial pressure of $3,0 \pm 0,5$ bars, in order to release the excess pressure. A Headspace-Cap is comparable with the patented three component PERKIN ELMER Headspace seal (consisting of an Aluminium Crimp Cap with slit, metal star washer and ear-shaped liner), that offers the same effect, however, in a completely different technical design.

20 03 0126	20 03 0112	20 03 0326	20 03 0264	20 03 0163
B0159356 (unassembled, 100) B0159357 (unassembled, 1000) H1010070 (assembled, 1000)	B0104239 (unassembled, 100) B0104240 (unassembled, 1000) B4000025 (assembled, 1000)	B0104243 (unassembled, 100) B0104244 (unassembled, 1000) B4000028 (assembled, 1000)	Alternative to: B0104239 (unassembled, 100) B0104240 (unassembled, 1000) B4000025 (assembled, 1000)	B0104241 (unassembled, 100) B0104242 (unassembled, 1000) B4000022 (assembled, 1000)
20mm Seal: Headspace-Cap, clear lacquered; Butyl dark grey, 55° shore A, 3.0mm	20mm Seal: Headspace-Cap, clear lacquered; Butyl/PTFE, grey, 50° shore A, 3.0mm	20mm Seal: Headspace-Cap, clear lacquered; Silicone white/Aluminium Foil silver, 50° shore A, 3.0mm	20mm Seal: Headspace-Cap, clear lacquered; Pharma-Fix-Septum, 50° shore A, 3.0mm	UltraClean™-Seal: Headspace-Cap, clear lacquered; Silicone blue transparent/ PTFE white, 45° shore A, 3.0mm
Packaging Unit: 100 pieces per PE-Bag				

20 10 0290	20 01 0408	20 03 0828	20 03 1490	18 15 0871
	119302142	Alternative to: B0104241 (unassembled, 100) B0104242 (unassembled, 1000) B4000022 (assembled, 1000)	Alternative to: B0104241 (unassembled, 100) B0104242 (unassembled, 1000) B4000022 (assembled, 1000)	
20mm Butyl stopper, grey	20mm Aluminium Crimp Cap, plain, centre hole	20mm Seal: Headspace-Cap, clear lacquered; Silicone white/PTFE beige, 45° shore A, 3.25mm	20mm Seal: Headspace-Cap, clear lacquered; Pharma-Fix-Septa, Silicone blue/PTFE grey,	18mm PP Screw Cap black, centre hole; Silicone transparent blue/ PTFE white, 45° shore A, 1.7mm for 18 09 0864
100 pieces per PE-Bag	1000 pieces per PE-Bag	100 pieces per PE-Bag	100 pieces per PE-Bag	100 pieces per PE-Bag

SH

Numerical Index / Cross References Perkin Elmer - La-Pha-Pack

Perkin Elmer Art.-No.	LPP Article-No. These articles are <u>included in the Perkin Elmer brochure</u> and may be <u>used</u> in connection <u>with their instruments!</u>	LPP Article-No. These articles are <u>not included in the Perkin Elmer brochure!</u>
00090699	11 06 0006	
9923031	13 09 0222	
02261144	09 18 0936	
03300806	08 03 0200 (alt.) 08 03 0451 (alt.)	
B0104236	20 09 0297	
B0104236	20 09 0440 (alt.)	
B0104239 /unassembled, 100 B0104240 /unassembled, 1000 B4000025 /assembled 1000 (The LPP closure has the same pressure release features, even if the design is different)	20 03 0112 (alt.)	
B0104239 /unassembled, 100 B0104240 /unassembled, 1000 B4000025 /assembled 1000 (The LPP closure has the same pressure release features, even if the design is different)	20 03 0030 (alt.)	
B0104241 /unassembled, 100 B0104242 /unassembled, 1000 B4000022 /assembled, 1000 (The LPP closure has the same pressure release features, even if the design is different)	20 03 0163 (alt.) 20 03 0828 (alt.) 20 03 1490 (alt.)	
B0104243 /unassembled, 100 B0104244 /unassembled, 1000 B4000028 /assembled, 1000 (The LPP closure has the same pressure release features, even if the design is different)	20 03 0326 (alt.)	
B0159356 /unassembled, 100 B0159357 /unassembled, 1000 H1010070 /assembled, 1000 (The LPP closure has the same pressure release features, even if the design is different)	20 03 0126 (alt.)	
N9301069	08 09 0284	
N9301270	20 07 0004	
119301303 (N9301303)	12 21 1001 (alt.)	
N9301304	24 21 1002 (alt.)	
119301385 (N9301385) / 100 119307017 / 500	11 09 0356	
N9301385	11 09 0476 (alt.)	
119301390 (N9301390)	11 07 0002	
119302134 (N9302134) / 125 (B104235 / 100)	20 09 0342	
119302136 (N9302136)	08 09 0276	
119302137 (N9302137)	11 09 0415	
119302684 119302685	11 03 0339 (alt.)	
119302140 (N9302140)	08 03 0268	
119302141 (N9302141)	09 15 0753 (alt.)	
N9302972 (B10 50 pcs.) N6621028 (Thermogreen, 50 pcs.) N9303343 (Low Bleed, 50 pcs.) 54019985 (Silicone, 50 pcs.)	11 18 0938	

All data indicated herein has been made at best knowledge. We do not take over any guarantee on correctness nor on completeness!
Status 2005

Numerical Index / Cross References Perkin Elmer - La-Pha-Pack

Perkin Elmer Art.-No.	LPP Article-No. These articles <u>are included in the Perkin Elmer brochure</u> and may be <u>used</u> in connection <u>with their instruments!</u>	LPP Article-No. These articles <u>are not included in the Perkin Elmer brochure!</u>
119302142 (N9302142)	20 01 0408	
N9302143		22 08 0340
119302680 (N9302680) / 100 119307018 /500	11 09 0477	
N9302681 + N9302682	06 09 0865 (alt.)	
119302784 (N9302784)	11 03 0407 (alt.)	
119302784 (N9302784)	11 03 0720	
N9302785	20 06 0008	
119306015 (N9306015)	11 03 1641 (alt.)	
119306015 (N9306015)	11 03 0300 (alt.)	
119306015 (N9306015)	11 03 0209 (alt.)	
119306052 (N9306052)	10 15 1328 (alt.)	
119306053 (N9306053)	10 09 0743	
119306057	10 09 1197	
N9307021		11 02 0445
N9307022		11 02 0104
N9307022		11 02 0140