

Standard Cells, Hellma®

Table of material code

OG	Optical glass (360 nm - 2500 nm)
OS	Optical glass (320 nm - 2500 nm)
UV	HOQ 310H (260 nm - 2500 nm)
QS	Quartz High Performance (200 nm - 2500 nm)
QX	Quartz Extended Range (200 nm - 3500 nm)

Absorption cells

Inside width 9.5 mm, base thickness 1.5 mm

Type/material	Vol. µl	Cover	Optical path length mm	Outer dimensi- ons H x W x D mm	Order No.
100-OS	350	glass lid	1	45x12.5x3.5	19 55 11011
100-OS	700	glass lid	2	45x12.5x4.5	19 55 11021
100-OS	1750	seamed lid	5	45x12.5x7.5	19 55 11051
100-OS	3500	seamed lid	10	45x12.5x12.5	19 55 11101
100-OS	7000	seamed lid	20	45x12.5x22.5	19 55 11201
100-OS	14000	seamed lid	40	45x12.5x42.5	19 55 11401
100-OS	17500	seamed lid	50	45x12.5x52.5	19 55 11501
100-OS	35000	seamed lid	100	45x12.5x102.5	19 55 11601
100-QS	350	glass lid	1	45x12.5x3.5	19 55 11012
100-QS	700	glass lid	2	45x12.5x4.5	19 55 11022
100-QS	1750	seamed lid	5	45x12.5x7.5	19 55 11052
① 100-QS	3500	seamed lid	10	45x12.5x12.5	19 55 11102
100-QS	7000	seamed lid	20	45x12.5x22.5	19 55 11202
100-QS	14000	seamed lid	40	45x12.5x42.5	19 55 11402
100-QS	17500	seamed lid	50	45x12.5x52.5	19 55 11502
100-QS	35000	seamed lid	100	45x12.5x102.5	19 55 11602
100-QX	3500	seamed lid	10	45x12.5x12.5	19 55 11104
110-OS	3500	PTFE stopper	10	45x12.5x12.5	19 55 12101
110-QS	350	PTFE stopper	1	45x12.5x3.5	19 55 12012
110-QS	700	PTFE stopper	2	45x12.5x4.5	19 55 12022
110-QS	1750	PTFE stopper	5	45x12.5x7.5	19 55 12052
② 110-QS	3500	PTFE stopper	10	45x12.5x12.5	19 55 12102
110-QS	17500	PTFE stopper	50	45x12.5x52.5	19 55 12502
110-QX	3500	PTFE stopper	10	45x12.5x12.5	19 55 12104
6030-OG	7000	seamed lid	20	45x12.5x22.5	19 55 10021
6030-OG	14000	seamed lid	40	45x12.5x42.5	19 55 10031
6030-OG	17500	seamed lid	50	45x12.5x52.5	19 55 10041
6030-UV	3500	seamed lid	10	45x12.5x12.5	19 55 10002
③ 117.100-QS ¹⁾	3500	screw cap	10	45x12.5x12.5	10 55 11172

1) For anaerobic applications, with ISO thread GL 14 and screw cap with silicone rubber seal

Semi-micro absorption cells

Inside width 4 mm

Type/material	Vol. µl	Cover	Optical path length mm	Outer dimensi- ons H x W x D mm	Base thickn. mm	Order No.
④ 6040-UV	1400	without lid	10	45x12.5x12.5	3.2	19 55 10010
104-OS	1400	seamed lid	10	45x12.5x12.5	3.2	19 55 13101
104-OS	7000	seamed lid	50	45x12.5x52.5	3.2	19 55 13501
104-QS	1400	seamed lid	10	45x12.5x12.5	3.2	19 55 13102
104-QS	7000	seamed lid	50	45x12.5x52.5	3.2	19 55 13502
⑤ 104B-QS ²⁾	1400	seamed lid	10	45x12.5x12.5	3.2	19 55 13602
108-QS	1000	seamed lid	10	45x12.5x12.5	9	10 55 13702
⑥ 114-QS	1400	PTFE stopper	10	45x12.5x12.5	3.2	19 55 14122
114B-QS ²⁾	1400	PTFE stopper	10	45x12.5x12.5	3.2	19 55 14132
117.104-QS ¹⁾	1400	screw cap	10	45x12.5x12.5	1.25	10 55 14142

1) For anaerobic applications, with ISO thread GL 14 and screw cap with silicone rubber seal

2) Black side walls and base



Hellma
Analytics
High Precision in Spectro-Optics

webcode  WWPEV001



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OG	Optical glass (360 nm - 2500 nm)
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QX	Quartz Extended Range (200 nm - 3500 nm)

Micro absorption cells

Optical path length 10 mm, inside width 2 mm

Type/material	Vol. μl	Cover	Outer dimensions H x W x D mm	Base thickness mm	Order No.
104.002-OS	700	seamed lid	45x12.5x12.5	3.2	19 55 14161
⑦ 104.002-QS	700	seamed lid	45x12.5x12.5	3.2	19 55 14162
104.002B-QS	700	seamed lid	45x12.5x12.5	3.2	19 55 14172
⑧ 105-QS	300	seamed lid	25x12.5x12.5	1.5	10 55 14182
108.002-QS	500	seamed lid	45x12.5x12.5	9	10 55 14192
108.002B-QS	500	seamed lid	45x12.5x12.5	9	10 55 14193
115-QS	400	PTFE stopper	40x12.5x12.5	1.25	19 55 14192
115B-QS ²⁾	400	PTFE stopper	40x12.5x12.5	1.25	10 55 14195

²⁾ Black side walls and base

Ultra-micro absorption cells

with PE stopper

Material: quartz glass High Performance

Optical path length: 10 mm

Outer dimensions (HxWxD): 45 x 12.5 x 12.5 mm

Type/material	Vol. μl	Center height mm	Aperture H x W mm	Order No.
105.200-QS	160	15	8 x 2	10 55 12001
105.200-QS	160	8.5	8 x 2	10 55 12002
⑨ 105.201-QS	100	15	5 x 2	10 55 12011
105.201-QS	100	8.5	5 x 2	19 55 10521
105.202-QS	50	15	2.5 x 2	10 55 12021
105.202-QS	50	8.5	2.5 x 2	10 55 12022

Semi-micro cells for flow-through measurements

with in/outlet tubes for absorption measurements

Window material: quartz glass High Performance

Aperture (HxW): 11 x 4 mm

Type/material	Vol. μl	Optical path length mm	Center height mm	Outer dimensions H x W x D mm	Order No.
176.000-QS	450	10	15	45x12.5x12.5	19 55 30102
⑩ 176.000-QS	2250	50	15	45x12.5x52.5	19 55 30502
176.000-QS	2250	50	8,5	38.5x12.5x52.5	19 55 30501

Compact cells for flow-through measurements

with 2 screw connectors M 6 x 1 and FEP tubes (outside Ø 1.9 mm, inside Ø 1.1 mm, 500 mm long)

Window material: quartz glass High Performance

Outside dim. (HxWxD): 35 x 12.5 x 12.5 mm

Type/material	Vol. μl	Optical path length mm	Center height mm	Aperture HxW mm	Order No.
170.700-QS ³⁾	6.2	0.1	all dim.	17.5x3.5	19 55 22202
170.700-QS ³⁾	12.4	0.2	all dim.	17.5x3.5	19 55 22212
170.700-QS ³⁾	31	0.5	all dim.	17.5x3.5	19 55 22222
⑪ 170.700-QS	62	1	all dim.	17.5x3.5	19 55 22252
170.700-QS	124	2	all dim.	17.5x3.5	19 55 22322
176.700-QS	195	5	15	11x3.5	10 55 15051
176.700-QS	195	5	8.5	11x3.5	10 55 15052
⑫ 176.700-QS	390	10	15	11x3.5	19 55 15102
176.700-QS	390	10	8.5	11x3.5	19 55 15832

³⁾ with bypass



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Macro fluorescence cells

with PTFE lid or stopper, triangular cell

Volume: 3500 µl
 No. of windows: 4
 Optical path length: 10 × 10 mm
 Inside width: 10 mm
 Base thickness: 1.25 mm

Type	Window material	Outer H × W × D mm	Order No.
⑬ 101-OS	Special optical glass	45×12.5×12.5	19 55 11511
101-QS	Quartz High Performance	45×12.5×12.5	19 55 11512
111-OS	Special optical glass	46×12.5×12.5	19 55 12511
111-QS	Quartz High Performance	46×12.5×12.5	19 55 12512
⑭ 117.100F-QS ¹⁾	Quartz High Performance	56×12.5×12.5	10 55 13512

¹⁾ For anaerobic applications, with ISO thread GL 14 and screw cap with silicone rubber seal

Semi-micro fluorescence cells

Window material: Quartz High Performance
 No. of windows: 4
 Optical path length: 10 × 4 mm
 Inside width: 4 mm

Type	Vol. µl	Cover	Outer dimensions H × W × D mm	Base thickness mm	Order No.
104F-QS	1400	seamed lid	45×12.5×12.5	1.25	19 55 14112
⑮ 114F-QS	1400	PTFE stopper	46×12.5×12.5	1.25	10 55 15112
⑯ 119.004F-QS	1500	PTFE stopper	49,5×12.5×12.5	5	10 55 11194
117.104F-QS ¹⁾	1400	screw cap	56×12.5×12.5	1.25	10 55 11174

¹⁾ For anaerobic applications, with ISO thread GL 14 and screw cap with silicone rubber seal

Micro fluorescence cells

Window material: Quartz High Performance
 Optical path length: 10 × 2 mm
 Inside width: 2 mm

Type	Vol. µl	Cover	Outer dimensions H × W × D mm	Base thickness mm	Order No.
104.002F-QS	700	seamed lid	45×12.5×12.5	1.25	19 55 14182
⑰ 108.002F-QS	500	seamed lid	45×12.5×12.5	9	10 55 14183
115F-QS	400	PTFE stopper	40×12.5×12.5	1.25	10 55 14184

Ultra-mikro fluorescence cells

with PTFE stopper

Window material: Quarzglas High Performance
 No. of windows: 3
 Outside dim. (H×B×T): 45 × 12.5 × 12.5 mm

Type	Vol. µl	Optical path length mm	Inner dimensions mm	Center height mm	Order No.
105.250-QS	100	10 × 2	5 × 2	15	10 55 12501
⑱ 105.250-QS	100	10 × 2	5 × 2	8.5	10 55 12502
105.251-QS	45	3 × 3	5 × 3	15	10 55 12511
105.251-QS	45	3 × 3	5 × 3	8.5	10 55 12512

Cells for light-scattering measurements

with PTFE stoppers, window material quartz High Performance

Type	Vol. µl	Outside dim. H × Ø mm	Inner dimensions mm	Order No.
540.110-QS	2800	75 × 10	75 × 8	10 55 15400
540.111-QS ⁴⁾	2800	75 × 10	75 × 8	10 55 15401
⑲ 540.135-QS	14000	75 × 20	75 × 18	10 55 15405

⁴⁾ polished outer cylinder

Demountable cells

Type	Vol. µl	Optical path length mm	Order No.
⑳ 106-QS	2.6	0.01 ± 0.003	10 55 11061
106-QS	26	0.1 ± 0.005	10 55 11062
106-QS	52	0.2 ± 0.005	10 55 11063
㉑ 013.000, holder for cell type 106-QS			10 55 11069

