

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 SUPRASIL® (200 nm - 2500 nm)
QX	Quartz SUPRASIL® 300 (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 dimensions 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
③ 6030-OG	3500	seamed lid	10	45x12.5x12.5	19 55 10001
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
④ 117.100-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 dimensions HxWxD mm	Base thickn. mm	Order No.
6040-OG	1400	without lid	10	45x12.5x12.5	3.2	19 55 10009
⑤ 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
⑥ 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
⑦ 114-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



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 SUPRASIL® (200 nm - 2500 nm)
QX	Quartz SUPRASIL® 300 (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
⑧ 104.002-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
⑨ 105-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 SUPRASIL®

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
⑩ 105.201-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-trough measurements

with in/outlet tubes for absorption measurements

Window material: quartz glass SUPRASIL®

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
⑪ 176.000-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 SUPRASIL®

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

Type/material	Vol. μl	Optical path length mm	Center height mm	Aperture H x W 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
⑫ 170.700-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
⑬ 176.700-QS	390	10	15	11x3.5	19 55 15102
176.700-QS	390	10	8.5	11x3.5	19 55 15832

³⁾ with bypass



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 SUPRASIL® (200 nm - 2500 nm)
QX Quartz SUPRASIL® 300 (200 nm - 3500 nm)

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 dimensions H × W × D mm	Order No.
14 101-OS	Special optical glass	45×12.5×12.5	19 55 11511
101-QS	Quartz SUPRASIL®	45×12.5×12.5	19 55 11512
111-OS	Special optical glass	46×12.5×12.5	19 55 12511
111-QS	Quartz SUPRASIL®	46×12.5×12.5	19 55 12512
15 117.100F-QS ¹⁾	Quartz SUPRASIL®	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 SUPRASIL®
 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
16 114F-QS	1400	PTFE stopper	46×12.5×12.5	1.25	10 55 15112
17 119.004F-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 SUPRASIL®
 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
18 108.002F-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 SUPRASIL®
 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
19 105.250-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 SUPRASIL®

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
20 540.135-QS	1000	75 × 20	75 × 18	10 55 15405

Demountable cells

Type	Vol. µl	Optical path length mm	Order No.
21 106-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
22 013.000, holder for cell type 106-QS			10 55 11069

