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Info Compact

Vials and closures from own production

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Product brochure of infochroma ag

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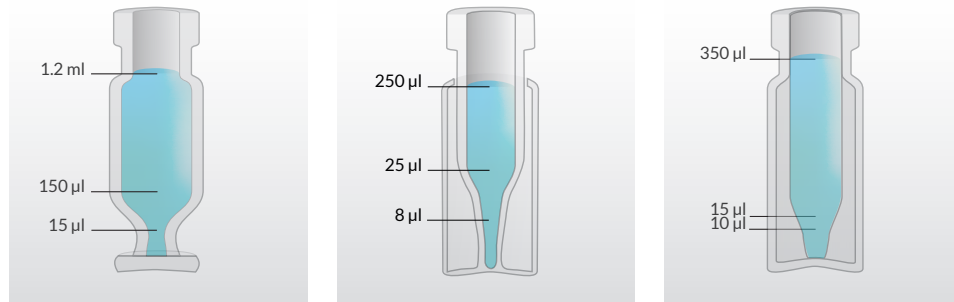
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12 × 32 mm vials for optimized microsampling

Our vials for small sample volumes produced by GTG, Germany (read more on page 16).
Made from borosilicate glass 1. hydrolytic class, clear (H) or amber (D)



Vµ-Vial

1.2 ml volume,
for small and large sample
volumes

iV2µ-Vial

250 µl volume,
insert itself closed with cap,
long, narrow tapered insert

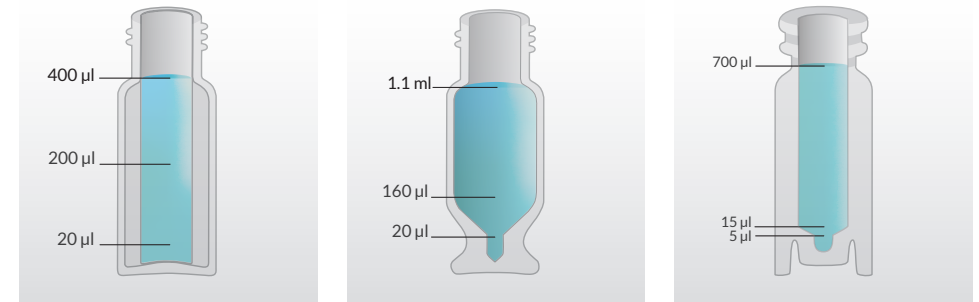
µ-Vial

350 µl volume,
tapered insert,
robust all-in-one design

Closure type	Vµ-Vial	iV2µ-Vial	µ-Vial
Crimp (ND11)	8002-CV-H/V15µ 8002-CV-D/V15µ	8002-CV-H/iV2µ 8002-CV-D/iV2µ	8002-CV-H/i3µ 8002-CV-D/i3µ
Snap/Crimp (ND11)	8002-SC-H/V15µ 8002-SC-D/V15µ	8002-SC-H/iV2µ 8002-SC-D/iV2µ	8002-SC-H/i3µ 8002-SC-D/i3µ
Agilent compatible (ND9)	8004-HP-H/V15µ 8004-HP-D/V15µ	8004-HP-H/iV2µ 8004-HP-D/iV2µ	8004-HP-H/i3µ 8004-HP-D/i3µ
Narrow Mouth (ND8)	8004-NM-H/V15µ 8004-NM-D/V15µ		
Wide Mouth (ND10)	8004-WM-H/V15µ 8004-WM-D/V15µ		8004-WM-H/i3µ 8004-WM-D/i3µ

Made from borosilicate glass 1. hydrolytic class,
clear (H) or amber (D)

Made from polypropylene



i4µ-Vial

400 µl volume,
flat bottom insert,
robust all-in-one design

iK11µ-Vial

1.1 ml volume,
very small dead volume

pp-Pure-Vial

100 µl - 700 µl volume,
made from very pure
polypropylene, Snap/Crimp
vial may also be used with
crimp caps

Closure type	i4µ-Vial	iK11µ-Vial	pp-Pure-Vial
Crimp (ND11)	8002-CV-H/i4µ 8002-CV-D/i4µ	G002-CV-H/iK11µ G002-CV-D/iK11µ	
Snap/Crimp (ND11)	8002-SC-H/i4µ 8002-SC-D/i4µ	G002-SC-H/iK11µ G002-SC-D/iK11µ	G002-SC-PP/i17µ
Agilent compatible (ND9)	8004-HP-H/i4µ 8004-HP-D/i4µ	G004-HP-H/iK11µ G004-HP-D/iK11µ	G004-HP-PP/i17µ
Narrow Mouth (ND8)			
Wide Mouth (ND10)			

ms-Pure - non-pigmented silicone/PTFE septum

With the increasing sensitivity of the analytical instruments, extractable substances from the septum may distort the analyses result. The ms-Pure silicone/PTFE septum is produced from a natural non-pigmented silicone/PTFE. Tests show that it is 60 % cleaner than "standard" silicone/PTFE septums on the market.

- non-pigmented silicone of highest quality
- low bleeding
- resists coring
- excellent resealing ability
- intended for multiple injections
- low compression set for storage reliability



This septum is available for all closure types of autosampler and headspace vials (see pp 12 & 13)

Closure type	Silicone/PTFE	Silicone/PTFE pre-slit	PTFE/silicone/PTFE
Crimp (CV)	G003-AC*-SKFK10	G003-AC*-Hi-SKFK10	G003-AC*-FKSKFK10
Snap/Crimp (SC)	G003-SC*-SKFK10	G003-SC*-Hi-SKFK10	G003-SC*-FKSKFK10
Agilent compatible (HP)	G004-HP-C*-SKFK10	G004-HP-C*-Hi-SKFK10	G004-HP-C*-FKSKFK10
Narrow Mouth (NM)	G004-NM-C*-SKFK10	G004-NM-C*-Hi-SKFK10	G004-NM-C*-FKSKFK10
Wide Mouth (WM)	G004-WM-CS-SKFK10	G004-WM-CS-Hi-SKFK10	G004-WM-CS-FKSKFK10

All caps are subjected to quality control. The PET jars allow a clean handling in the laboratory.



Replace the «*» with the cap colour of your choice.

The abbreviations above the colour fields indicate which closure type is available in which colour:

CV, SC	SC, HP, NM	CV, HP	CV, SC, HP, NM	HP, NM, WM	HP, NM	HP, NM
C = clear	B = blue	G = green	R = red	S = black	W = white	Y = yellow

ZeroSept® - phthalate-free septum

- for trace and migration analysis
- for liquid-liquid extractions
- phthalate, elastomer, silicone and halogen free



ZeroSept® AIR

The ZeroSept® AIR septum seals due to an air cushion sandwiched between two thin layers of high-purity PTFE foil. When coring a silicone or rubber septum with the needle, some septum material may be extracted into the sample. The ZeroSept® AIR septum eliminates the risk of interfering peaks as a result of coring material. Tests have shown that the ZeroSept® AIR septum seals adequately over a period of 24 hours even when used for multiple injections.

Neck Ø	Description	Product #
11 mm	Aluminium crimp cap • Septum: PTFE foil/fluoroplastic O-ring/PTFE foil, sealing due to air cushion, multiple injection possible	GC03-AC*-FWAFW01
20 mm	Aluminium crimp cap • Septum: PTFE foil/fluoroplastic O-ring/PTFE foil, sealing due to air cushion, multiple injection possible	GC07-AC*-FWAFW01
20 mm	Aluminium crimp cap blue, with magnetic stainless steel ring • Septum: PTFE foil/fluoroplastic O-ring/PTFE foil, sealing due to air cushion, multiple injection possible	GC07-MACB-FWAFW01

ZeroSept® Septum with O-ring and aluminium- or PTFE foil

The O-ring has the same thickness as a conventional septum. It ensures that the septum lies optimally on the vial head opening and reduces the need to fully readjust the crimper.

Neck Ø	Description	Product #
11 mm	ALUmono-O: Aluminium crimp cap • Septum: fluoroplastic O-ring/aluminium foil	GC03-ACC-FOAL01
11 mm	PTFEmono-O: Aluminium crimp cap • Septum: fluoroplastic O-ring/PTFE foil	GC03-ACC-FOFW01
11 mm	ALUmono: Aluminium crimp cap • Septum: aluminium foil	G003-ACZ-AL01
11 mm	PTFEmono: Aluminium crimp cap • Septum: PTFE foil	G003-ACZ-FW03

The blueLine

blueLine - standard chromatography vials and caps

1.5 ml Standard vials & caps, as they are used for routine analyses, should be available at a favourable price. Despite the favourable price, a good quality of vials and caps is required for a smooth work flow. Our blueLine vials and caps fulfill these requirements.

Our blueLine vials are made from borosilicate glass 1. hydrolytic class, clear (H) or amber (D)



Crimp vial

Snap/Crimp vial

Agilent compatible vial

Closure type	Vials	Caps with silicone/ PTFE septum	Caps with butylrubber/ PTFE septum
Crimp (ND11)	BL02-CV-H BL02-CV-D	BL03-ACC-SWFR10	BL03-AC*-RBF10
Snap/Crimp (ND11)	BL02-SC-H BL02-SC-D	BL03-SCB-SWFR10 BL03-SCB-Hi-SWFR10	
Agilent compatible (ND9)	BL04-HP-H BL04-HP-D	BL04-HP-CB-SWFR10 BL04-HP-CB-Hi-SWFR10	

replace «*» with the cap colour of your choice.

C = clear

B = blue

blueLine Storage Vials

Our blueLine Storage Vials are made from borosilicate glass 1. hydrolytic class, clear- (H) or amber (D).

The matching screw caps have an inserted PTFE liner.



Screw Vials

Volume	Dimensions $\varnothing \times h$	Screw thread	Product #
4 ml	14 x 45 mm	13-425	BL72-14/045-H BL72-14/045-D
7.5 ml	17 x 60 mm	15-425	BL72-17/060-H BL72-17/060-D
10 ml	19 x 65 mm	15-425	BL72-19/065-H BL72-19/065-D
20 ml	27 x 57 mm	24-400	BL72-27/057-H BL72-27/057-D
25 ml	27 x 68 mm	24-400	BL72-27/068-H BL72-27/068-D
40 ml	27 x 95 mm	24-400	BL72-27/095-H BL72-27/095-D
60 ml	27 x 140 mm	24-400	BL72-27/140-H BL72-27/140-D

Screw Caps

Thread	Description	Product #
13-425	Closed-top screw cap, inserted PTFE liner, blue	G075-CB/13
15-425	Closed-top screw cap, inserted PTFE liner, blue	G075-CB/15
24-400	Closed-top screw cap, inserted PTFE liner, blue	G075-CB/24

Sterile and depyrogenated vials & closures from the clean room



In our in-house clean room, we wash, sterilise and depyrogenise vials, bottles and closures according to customer specifications.

Available processes

- Purified water rinse (de-ionised / de-mineralised water)
- Packing in low-particle environment
- Steam sterilisation
- Hot air sterilisation
- Hot-air depyrogenation
- E-Beam sterilisation in co-operation with contract partners
- Individual pack sizes
- Individual combination of products per unit
- Production of small or large quantities

Quality control

- Validated process
- Skilled staff
- IQ/OQ - equipment qualification, rotative PQ
- Visual inspection for visual defects of 100% of the finished products
- Analyses for sterility and BET test (bacterial endotoxin-test) carried out by an independent microbiology laboratory
- Detection limit BET: <0.001 EU/ml
- Particle counting according to USP 788

Our standard programme from the clean room

- Crimp vials with 20 mm neck, pre-crimped
- clear borosilicate glass, 1. hydrolytic class
- pre-crimped with aluminium crimp cap and butyl rubber stopper
- sterile and pyrogen-free
- with certificate
- minimum shelf life 6 months



Volume	Dimensions ø x h	Neck ø	Product #
5 ml	22 x 40 mm	20 mm	8E05-20CV-ST
10 ml	24 x 45 mm	20 mm	8E10-20CV-ST
20 ml	30 x 55 mm	20 mm	8E20-20CV-ST

Further volumes/dimensions available on request.



Headspace crimp vials & caps

Our Headspace vials are made from borosilicate glass, 1. hydrolytic class, clear (H) or amber (D)



Headspace crimp vials

Volume	Dimensions Ø x h	Neck Ø	Product #
10 ml	23 x 45 mm	20 mm	G006-10-H/FI G006-10-D/FI
10 ml	23 x 45 mm	20 mm	G006-10-H/Ru
20 ml	23 x 75 mm	20 mm	G006-20-H/FI G006-20-D/FI
20 ml	23 x 75 mm	20 mm	G006-20-H/Ru G006-20-D/Ru

Headspace crimp caps and septa

Aluminium caps with or without magnetic steel ring with non-pigmented ms-Pure silicone/PTFE septum or ZeroSept® AIR septum and polyethylene snap caps for wash vials. (see pp. 6-7 for more information).



Neck Ø	Description	Product #
20 mm	Aluminium crimp cap with magnetic steel ring • ms-Pure septum: 3.2 mm thick, clear silicone/PTFE, 40 ± 5° Shore A	G007-MAC*-SKFK30
20 mm	Aluminum crimp cap, clear (C) or red (R) • ms-Pure septum 3.2 mm thick, clear silicone/PTFE, 40 ± 5° Shore A	G007-ACC-SKFK30 G007-ACR-SKFK30
20 mm	Aluminium crimp cap, blue, with magnetic steel ring • ZeroSept® AIR septum: PTFE foil/fluoroplastic O-ring/PTFE foil, phthalate-free, multiple injection possible	GC07-MACB-FWAFW01
20 mm	Polyethylene snap cap, white • Septum 1.5 mm thick, white-blue silicone/PTFE	8007-WKS1

replace «*» with the cap colour of your choice



Headspace screw vials, caps and septa

Headspace vials with screw caps made of glass-fibre reinforced polyamide. Easy to screw, only require a torque of <1 Nm (usual: >8 Nm) for pressure-tight closure. A magnetic ring is embedded in the cap for use on samplers with magnetic arm.



Volume	Description	Product #
10 ml	Screw vial, borosilicate glass 1. hydrolytic class • magnetic screw cap • 3 mm white-red silicone/PTFE septum, 40 ± 5° Shore A, usable up to 150 °C	GHS6*-10R-SWFR31-H GHS6*-10R-SWFR31-D
10 ml	Screw vial, borosilicate glass 1. hydrolytic class • magnetic screw cap • 1.6 mm white-red silicone/PTFE septum, 40 ± 5° Shore A, usable up to 125 °C	GHS6*-10R-SWFR16-H GHS6*-10R-SWFR16-D
10 ml	Screw vial, borosilicate glass 1. hydrolytic class • magnetic screw cap • 3 mm clear-white silicone/PTFE septum, 40 ± 5° Shore A, usable up to 150 °C	GHS6*-10R-SKFW32-H GHS6*-10R-SKFW32-D
10 ml	Screw vial, borosilicate glass 1. hydrolytic class • magnetic screw cap • 3 mm blue-grey silicone/PTFE septum, 40 ± 5° Shore A, usable up to 150 °C	GHS6*-10R-SBFZ31-H GHS6*-10R-SBFZ31-D
10 ml	Screw vial, borosilicate glass 1. hydrolytic class • magnetic screw cap • 3 mm grey butylrubber/PTFE septum, 50 ± 5° Shore A, usable up to 125 °C	GHS6*-10R-BZFZ31-H GHS6*-10R-BZFZ31-D
20 ml	Screw vial, borosilicate glass 1. hydrolytic class • magnetic screw cap • 3 mm white-red silicone/PTFE septum, 40 ± 5° Shore A, usable up to 150 °C	GHS6*-20R-SWFR31-H GHS6*-20R-SWFR31-D
20 ml	Screw vial, borosilicate glass 1. hydrolytic class • magnetic screw cap • 1.6 mm white-red silicone/PTFE septum, 40 ± 5° Shore A, usable up to 125 °C	GHS6*-20R-SWFR16-H GHS6*-20R-SWFR16-D
20 ml	Screw vial, borosilicate glass 1. hydrolytic class • magnetic screw cap • 3 mm clear-white silicone/PTFE septum, 40 ± 5° Shore A, usable up to 150 °C	GHS6*-20R-SKFW32-H GHS6*-20R-SKFW32-D
20 ml	Screw vial, borosilicate glass 1. hydrolytic class • magnetic screw cap • 3 mm blue-grey silicone/PTFE septum, 40 ± 5° Shore A, usable up to 150 °C	GHS6*-20R-SBFZ31-H GHS6*-20R-SBFZ31-D
20 ml	Screw vial, borosilicate glass 1. hydrolytic class • magnetic screw cap • 3 mm grey butyl rubber/PTFE septum, 50 ± 5° Shore A, usable up to 125 °C	GHS6*-20R-BZFZ31-H GHS6*-20R-BZFZ31-D

replace «*» with the cap colour of your choice



Glass

H: clear
D: amber

Lyophilisation: vials, caps and stoppers

Screw vials

GL14 & GL22 thread

Crimp vials

13 mm & 20 mm crimp neck

in clear (H) and/or amber (D)
borosilicate glass, autoclavable



Screw vials

Volume	Dimensions Ø x h	Screw thread	Product #
3 ml	18 x 36 mm	GL14	8084-03-H 8084-03-D
5 ml	18 x 41 mm	GL14	8084-05-H 8084-05-D
10 ml	25 x 50 mm	GL22	8084-10-H 8084-10-D
20 ml	28 x 63 mm	GL22	8084-20-H 8084-20-D
25 ml	32 x 63 mm	GL22	8084-25-H 8084-25-D

Screw caps & stoppers

Thread/Ø	Description	Product #
GL14	Autoclavable polypropylene screw cap, white	8084-CW-Lio
GL14	Polyethylene lined screw cap, white	8084-CW-PP
14 mm	Lyophilisation stopper, gray butyl rubber, iglu	8084-Lio
GL22	Autoclavable polypropylene screw cap, white	8084-CW/22-Lio
GL22	Autoclavable polypropylene screw cap, red	8084-CR/22-Lio
GL22	Polyethylene lined screw cap, white	8084-CW/22-PP
20 mm	Lyophilisation stopper, gray butyl rubber, 4 leg	8087-Lio

Crimp vials

Volume	Dimensions Ø x h	Neck Ø	Product #
2 ml	15 x 33 mm	13 mm	8082-15/033-H
3 ml	16 x 35 mm	13 mm	8082-16/035-H 8082-16/035-D
3 ml	15 x 37 mm	13 mm	8082-15/037-H
5 ml	16 x 50 mm	13 mm	8082-16/050-D
6 ml	22 x 40 mm	20 mm	8086-22/040-H 8086-22/040-H
10 ml	23 x 46 mm	20 mm	G006-10-H/FL G006-10-D/FL
20 ml	30 x 55 mm	20 mm	8086-30/055-H* 8086-30/055-D*
30 ml	36 x 62 mm	20 mm	8086-36/062-H*
50 ml	43 x 73 mm	20 mm	8086-43/073-H* 8086-43/073-D*
100 ml	52 x 95 mm	20 mm	8086-52/095-H* 8086-52/095-D*

Vials marked with «*» are made from moulded glass.

Crimp caps & stoppers

Neck Ø	Description	Product #
13 mm	Aluminium crimp cap, complete tear off	8083-TO
13 mm	Lyophilisation stopper, grey butyl rubber, iglu	8083-Lio
13 mm	Injection stopper, grey butyl rubber	8083-Bu
20 mm	Aluminium crimp cap, complete tear off	8087-TO
20 mm	Aluminium crimp cap, centre tear off	8087-MA
20 mm	Flip-off® crimp caps, 15 colours	8087-FO*
20 mm	Lyophilisation stopper, grey butyl rubber 4-leg	8087-Lio
20 mm	Lyophilisation stopper, grey butyl rubber, 2-leg	8087-Lio2
20 mm	Injection stopper, grey butyl rubber	8087-Bu
20 mm	Injection stopper, grey butyl rubber/PTFE	8087-Bu/Te
20 mm	Injection stopper, clear silicone	8087-Si

*The full colour selection cannot be listed on this page. Please contact our team or your dealer for further information.

Production at Glastechnik Gräfenroda - GTG

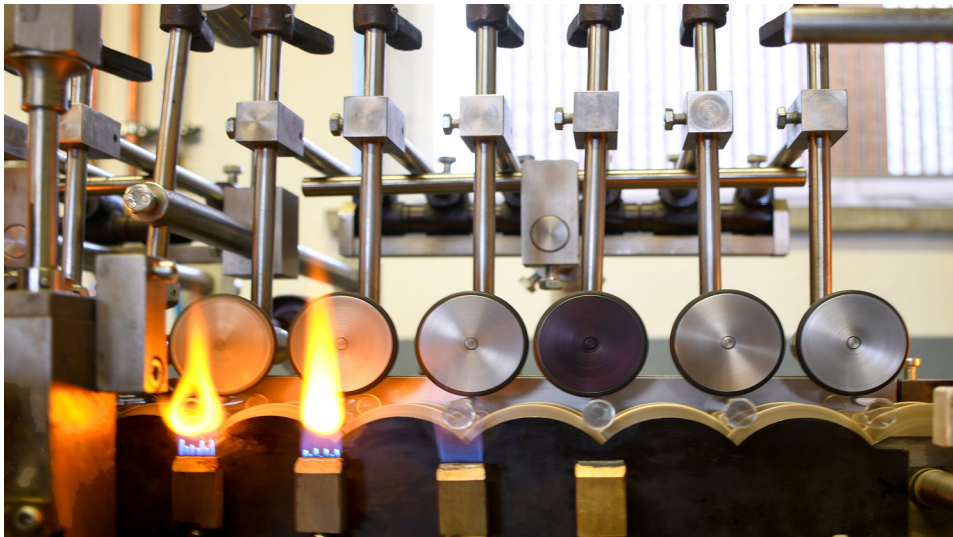
Glass products "Made in Germany"

Our partner company Glastechnik Gräfenroda GmbH is located in the traditional glass manufacturing area of Thuringia. Together we develop and produce innovative, high-quality glass products for chromatography as well as pharmaceutical and industrial applications. These we distribute at home as well as internationally.



We produce **autosampler vials for optimised microsampling** with the standard 12 x 32 mm dimensions such as our iV2 μ -Vial. This is a 250 μ l insert vial where the insert itself is closed by the cap. It is, so to speak, the „little brother“ of our 1.2 ml iV μ -Vial, which has the shape of a small vase. Both products were developed in-house and are patented. (see pp. 4 & 5)

We are also your **competent partner for custom-made products from tubular glass**. Qualified glassblowers and machine engineers, combined with much experience and know-how, allow us to develop together with you a new product from your idea to serial production. Find some of these products on the following pages.



Special purpose vials: VMax, iTri & nG Nano by GTG

VMax - the "large" Vase-Vial

- for optimised microsampling
- ideal for automated sample preparation
- dead volume approximately $\leq 7 \mu$ l

We can fit any vial made from tubular glass with our patented vase foot for optimised microsampling.

This is already possible from quantities ≥ 1000 pcs. We also convert tubular glass vials delivered to us.

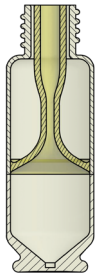


Volume	Dimensions $\varnothing \times h$	Neck \varnothing / Thread	Product #
9.5 ml	23 x 45 mm	20 mm	G006-23/045-H/VM μ G006-23/045-D/VM μ
20 ml	23 x 75 mm	20 mm	G006-23/075-H/VM μ G006-23/075-D/VM μ
3.5 ml	14 x 45 mm	13-425	G072-14/045-H/VM μ G072-14/045-D/VM μ
9.5 ml	19 x 65 mm	15-425	G072-19/065-H/VM μ G072-19/065-D/VM μ
10 ml	23 x 46 mm	20-400	G072-23/046-H/VM μ G072-23/046-D/VM μ
19 ml	27 x 57 mm	24-400	G072-27/057-H/VM μ G072-27/057-D/VM μ
39 ml	27 x 95 mm	24-400	G072-27/095-H/VM μ G072-27/095-D/VM μ
59 ml	27 x 140 mm	24-400	G072-27/140-H/VM μ G072-27/140-D/VM μ
9 ml	23 x 42 mm	HS6-19	GHS6-23/042-H/VM μ GHS6-23/042-D/VM μ
19 ml	23 x 73 mm	HS6-19	GHS6-23/073-H/VM μ GHS6-23/073-D/VM μ

iTri - High density storage vial for automated applications

High-density vial to simplify the handling of volatile samples and small sample volumes, if required, also in an automated process.

- high density due to tapered & fused insert
- optimised microsAMPLig
- easy labelling due to large vial body
- different vial volumes, yet identical vial dimensions
- compatible with our magnetic open-top caps
- closed-top caps available



The inner funnel, which is fused into the bottle and tapered, offers a large surface area while having a very narrow opening. Tests show that even with the bottle unsealed, volatile samples can be retained above average. The special design ensures a consistently large bottle body even with different volumes. This not only facilitates the handling of the bottle, but also the application of labels or barcodes.

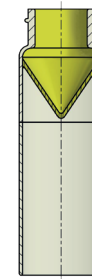
The special thread developed in-house, which is also used in our headspace vials (see p. 12 & 13), enables safe, high-density long-term storage. The matching caps made of glass fibre reinforced polyamide can be screwed on pressure-tight manually or mechanically (19 mm hex nut) without any effort. The closures are available open-top with magnetic steel ring or closed-top.

Volume	Dimensions Ø x h	Screw thread	Product #
1 ml	23 x 73 mm	HS6-19	GHS6*-iTri01-H/VMµ GHS6*-iTri01-D/VMµ
5 ml	23 x 73 mm	HS6-19	GHS6*-iTri05-H/VMµ GHS6*-iTri05-D/VMµ
8 ml	23 x 73 mm	HS6-19	GHS6*-iTri08-H/VMµ GHS6*-iTri08-D/VMµ

replace «*» with the cap colour of your choice

B = blue	G = green	R = red	S = black	W = white	Y = yellow	Glass H: clear D: amber
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nG - Nano storage vial - large body yet small volume



All advantages at a glance:

- optimized microsAMPLig
- easy labelling thanks to large vial body
- easy to handle even with bulky gloves
- different vial volumes; identical vial dimensions if required
- available with all standard closure types
- customised designs possible

Volume	Dimensions Ø x h	Screw thread	Product #
1.5 ml	14 x 40 mm	13-425	G072-14/040-H/nG015 G072-14/040-D/nG015
0.3 ml	19 x 58 mm	15-425	G072-19/058-H/nG030 G072-19/058-D/nG030
2.5 ml	19 x 58 mm	15-425	G072-19/058-H/nG250 G072-19/058-D/nG250
0.05 ml	27 x 85 mm	24-400	G072-27/085-H/nG005(09) G072-27/085-D/nG005(09)
1 ml	27 x 85 mm	24-400	G072-27/085-H/nG100 G072-27/085-D/nG100
10 ml	27 x 85 mm	24-400	G072-27/085-H/nG1000 G072-27/085-D/nG1000
0.5 ml	23 x 60 mm	HS6-19	GHS6-23/060-H/nG050 GHS6-23/060-D/nG050
5 ml	23 x 60 mm	HS6-19	GHS6-23/060-H/nG500 GHS6-23/060-D/nG500

Storage Vials from 1.0 to 60 ml with PTFE lined closed-top screw cap

Storage Vial, clear (H) or amber (D) borosilicate glass, 1. hydrolytic class, including PTFE lined closed-top screw cap.
Packed in a square sleeve box with a grid divider (100 pcs.); Sleeve box ideal for storing samples at room temperature or in the freezer.



Vials Ø 12 mm Screw thread 9-425
Vials Ø 14 mm Screw thread 13-425
Vials Ø 17 mm Screw thread 15-425
Vials Ø 19 mm Screw thread 15-425

1,0 ml	Height: 24 mm G195*-12/024-H G195*-12/024-D	Height: 19 mm G075*-14/019-H G075*-14/019-D		
1,2 ml	Height: 32 mm G195*-12/032-H/V15µ G195*-12/032-D/V15µ			
1,5 ml	Height: 32 mm G195*-12/032-H G195*-12/032-D	Height: 22 mm G075*-14/022-H G075*-14/022-D		
2 ml	Height: 43 mm G195*-12/043-H G195*-12/043-D	Height: 26 mm G075*-14/026-H G075*-14/026-D		
2,5 ml		Height: 30 mm G075*-14/030-H G075*-14/030-D	Height: 27 mm G075*-17/027-H G075*-17/027-D	
3,75 ml		Height: 45 mm G075*-14/045-H G075*-14/045-D	Height: 35 mm G075*-17/035-H G075*-17/035-D	
5 ml		Height: 50 mm G075*-14/050-H G075*-14/050-D	Height: 42 mm G075*-17/042-H G075*-17/042-D	Height: 37 mm G075*-19/037-H G075*-19/037-D
7,5 ml			Height: 60 mm G075*-17/060-H G075*-17/060-D	Height: 50 mm G075*-19/050-H G075*-19/050-D
10 ml			Height: 72 mm G075*-17/072-H G075*-17/072-D	Height: 65 mm G075*-19/065-H G075*-19/065-D



Vials Ø 19 mm
Screw thread 15-425



Vials Ø 23 mm
Screw thread 20-400



Vials Ø 27 mm
Screw thread 24-400

5 ml	Height: 37 mm G075*-19/037-H G075*-19/037-D		
7,5 ml	Height: 50 mm G075*-19/050-H G075*-19/050-D	Height: 37 mm G075*-23/037-H G075*-23/037-D	
10 ml	Height: 65 mm G075*-19/065-H G075*-19/065-D	Height: 45 mm G075*-23/045-H G075*-23/045-D	Height: 37 mm G075*-27/037-H G075*-27/037-D
15 ml	Height: 87 mm G075*-19/087-H G075*-19/087-D	Height: 60 mm G075*-23/060-H G075*-23/060-D	Height: 47 mm G075*-27/047-H G075*-27/047-D
20 ml		Height: 75 mm G075*-23/075-H G075*-23/075-D	Height: 57 mm G075*-27/057-H G075*-27/057-D
25 ml		Height: 85 mm G075*-23/085-H G075*-23/085-D	Height: 68 mm G075*-27/068-H G075*-27/068-D
30 ml			Height: 78 mm G075*-27/078-H G075*-27/078-D
40 ml			Height: 95 mm G075*-27/095-H G075*-27/095-D
50 ml			Height: 118 mm G075*-27/118-H G075*-27/118-D
60 ml			Height: 140 mm G075*-27/140-H G075*-27/140-D G055*-27/140-H round bottom vial

We carry standard sizes of the usual high quality, unassembled and in simple packaging at particularly favourable prices. See page 9: [blueLine Storage Vials](#).
We also offer all our Storage Vials as [Septum Vials](#) with an open-top cap and various septa types. If you are interested, please contact us or your dealer directly or visit www.infochroma.ch.

replace «*» with the cap colour of your choice

B = blue	G = green	R = red	S = black	W = white	Y = yellow	Glass H: clear D: amber
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Storage Vials for the long-term storage of volatile samples

Storage Vial, clear (H) or amber (D) borosilicate glass, 1. hydrolytic class, rounded base or VMax foot. (see p. 17/20-21). Including closed-top high density screw cap lined with PTFE or butyl-rubber/PTFE septum.



Volume	Description	Product #
10 ml	Screw vial, borosilicate glass 1. hydrolytic class • assembled with PTFE lined, closed-top, high density screw cap	GH85*-23/043-H GH85*-23/043-D
10 ml	Screw vial, borosilicate glass 1. hydrolytic class • assembled with closed-top, high density screw cap and butyl rubber/PTFE septum	GH85*-23/043-BZFZ31-H GH85*-23/043-BZFZ31-D GH85*-23/043-BZFZ31-H/G
20 ml	Screw vial, borosilicate glass 1. hydrolytic class • assembled with PTFE lined, closed-top, high density screw cap	GH85*-23/073-H GH85*-23/073-D GH85*-23/073-H/G
20 ml	Screw vial, borosilicate glass 1. hydrolytic class • assembled with closed-top, high density screw cap and butyl rubber/PTFE septum	GH85*-23/073-BZFZ31-H GH85*-23/073-BZFZ31-D GH85*-23/073-BZFZ31-H/G
9 ml	VMax screw vial for optimized microsampling, borosilicate glass 1. hydrolytic class • assembled with PTFE lined, closed-top, high density screw cap	GH85*-23/042-H/VM μ GH85*-23/042-D/VM μ
19 ml	VMax screw vial for optimized microsampling, borosilicate glass 1. hydrolytic class • assembled with PTFE lined, closed-top, high density screw cap	GH85*-23/072-H/VM μ GH85*-23/072-D/VM μ
1 ml	i-Tri screw vial, high density, tapered and fused insert (s.p.18), borosilicate glass 1. hydrolytic class • assembled with PTFE lined, closed-top, high density screw cap	GH85*-iTri01-H/VM μ GH85*-iTri01-D/VM μ
5 ml	i-Tri screw vial, high density, tapered and fused insert (s.p.18), borosilicate glass 1. hydrolytic class • assembled with PTFE lined, closed-top, high density screw cap	GH85*-iTri05-H/VM μ GH85*-iTri05-D/VM μ
8 ml	i-Tri screw vial, high density, tapered and fused insert (s.p.18), borosilicate glass 1. hydrolytic class • assembled with PTFE lined, closed-top, high density screw cap	GH85*-iTri08-H/VM μ GH85*-iTri08-D/VM μ

replace «*» with the cap colour of your choice

B = blue	G = green	R = red	S = black	W = white	Y = yellow	Glass H: clear D: amber
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Bottles for sample storage from 6 - 2500 ml

Type III Soda lime glass: chemically inert and recyclable. The surface of the glass is smooth and non-porous so that this glass is easy to clean.

Clear glass: for good visibility of the sample and sample integrity

Amber glass : protects the content from UV light and is ideal for light sensitive samples



Volume	Description	Glass	Product #
30 ml, 60 ml, 120 ml, 240 ml, 480 ml, 960 ml, 1000 ml	Boston Round	clear (H), amber (D),	8080-BR-[Volume]-H 8080-BR-[Volume]-D
120 ml, 240 ml, 480 ml, 960 ml, 1920 ml	Wide-Mouth	clear (H)	8080-WM-[Volume]-H
6 ml, 8 ml, 15 ml, 30 ml, 60 ml, 120 ml, 250 ml, 300 ml, 500 ml, 950 ml, 1250 ml, 2500 ml	Wide-Mouth	amber (D)	8080-WM-[Volume]-D
30 ml, 60 ml, 120 ml, 180 ml, 240 ml, 480 ml, 960 ml	Straight Sided (especially wide opening)	clear (H), amber (D)	8080-SR-[Volume]-H 8080-SR-[Volume]-D
30 ml, 60 ml, 120 ml, 240 ml, 480 ml	Wide-Mouth with millilitre scale	clear (H)	8080-MM-[Volume]-H
15 ml, 30 ml, 60 ml, 120 ml, 240 ml, 480 ml, 960 ml	French Square	clear (H)	8080-FS-[Volume]-H

Vials for environmental analyses

Vials with volumes 20, 40 und 60 ml, pre-cleaned to EPA method

- Procedure TOC - Total organic carbon analyses
- Procedure P1 - Extractable organic, semi-volatile and pesticide analyses
- Procedure P2 - VOC-Trace analyses
also available filled with 0.25 ml hydrochloric acid (HCL)
- Procedure P4 - Nitrate/nitrite analyses

Volume	Description	Produkt Nr.
20 ml	Screw vial • clear borosilicate glass 1. hydrolytic class • open-top screw cap • silicone/PTFE septum 3.2 mm • Procedure P4 • with certificate	8S74-20-H/P4
20 ml	Screw vial • amber borosilicate glass 1. hydrolytic class • open-top screw cap • silicone/PTFE septum 3.2 mm • Procedure P4 • with certificate	8S74-20-D/P4
40 ml	Screw vial • clear borosilicate glass 1. hydrolytic class • open-top screw cap • silicone/PTFE septum 1.5 mm • pre-cleaned for TOC analyses <10 ppb • with certificate	8S74-40-H/TOC10-15
40 ml	Screw vial • amber borosilicate glass 1. hydrolytic class • open-top screw cap • silicone/PTFE septum 1.5 mm • pre-cleaned for TOC analyses <10 ppb • with certificate	8S74-40-D/TOC10-15
40 ml	Screw vial • clear borosilicate glass 1. hydrolytic class • open-top screw cap • silicone/PTFE septum 3.2 mm • Procedure P2 • with certificate	8S74-40-H/P2
40 ml	Screw vial • amber borosilicate glass 1. hydrolytic class • open-top screw cap • silicone/PTFE septum 3.2 mm • Procedure P2 • with certificate	8S74-40-D/P2
40 ml	Screw vial • clear borosilicate glass 1. hydrolytic class • open-top screw cap • silicone/PTFE septum 3.2 mm • Procedure P2 • filled with 0.25 ml hydrochloric acid (HCL)	8S74-40-H/HCL
40 ml	SScrew vial • amber borosilicate glass 1. hydrolytic class • open-top screw cap • silicone/PTFE septum 3.2 mm • Procedure P2 • filled with 0.25 ml hydrochloric acid (HCL)	8S74-40-D/HCL
60 ml	Screw vial • clear borosilicate glass 1. hydrolytic class • open-top screw cap • silicone/PTFE septum 3.2 mm • Procedure P1 • with certificate	8S74-60-H/P1
60 ml	Screw vial • amber borosilicate glass 1. hydrolytic class • open-top screw cap • silicone/PTFE septum 3.2 mm • Procedure P1 • with certificate	8S74-60-D/P1

The full selection cannot be listed on this page. Among others, bottles made of type III soda-lime glass from 125 ml are available. Please contact our team or your dealer for further information.

FLUICS - more than just a label printer

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The FLUICS-software and associated labels

	FLUICS CONNECT	FLUICS RAPID LABEL
Overview	A shared database, smart QR codes and a mobile app to find samples, reagents or other items in the lab.	Solvent-resistant labels with hazard pictograms in seconds. GHS/CLP compliant for a safe lab.
Software details	offers comprehensive, intuitive software for inventory and inventory tracking; Required data fields can be freely created in the layout (e.g. withdrawal date, analyses procedure, etc.); QR codes enable easy, location-independent data entry and updating via app or browser; unique identifier enables flexible linking of samples/reagents with tests, experiments or storage locations; import and export from Excel file possible; data synchronisation thanks to cloud (EU-based)	prints black hazard pictograms with red diamonds together with the substance name on a label; GHS/CLP/TRGS201 compliant; easy to create and print; mobile as well as web application without user registration accessible by everyone in the lab
Labels	yellow; waterproof; resistant to alcohol spraying; cryostorage -196 ° to +110 °C; ultrapermanent; adheres to wet surfaces; compliant for indirect food contact FDA 21 CFR 175.105; various formats, including histology (microscopic slides)	white; resistant to aggressive solvents such as acetone, toluene, etc.; -20 ° to +80 °C; removable; blank or pre-printed for hazard pictograms; different formats

Test phases are possible. Find out more at www.infochroma.ch, or enquire by phone or email.

Metal digestion and sample preparation

Bottles for sample collection

- made of high-density polyethylene with wide opening
- pre-cleaned level 1, batch controlled, with adhesive seal and certificate of analyses
- leak-proof screw cap with liner made of F217



Volume	Description	Product #
250 ml	Screw bottle made of high density polyethylene • 48 mm polypropylene screw cap with liner made of F217 • pre-cleaned level 1	EE75-WM-0250-PPL1
500 ml	Screw bottle made of high density polyethylene • 53 mm polypropylene screw cap with liner made of F217 • pre-cleaned level 1	EE75-WM-0500-PPL1
1000 ml	Screw bottle made of high density polyethylene • 63 mm polypropylene screw cap with liner made of F217 • pre-cleaned level 1	EE75-WM-1000-PPL1

50 ml Certi Tube - Digestion tube and accessory

- Digestion tube or storage container
- increased wall thickness ensures greater durability during digestion with concentrated acids
- recess at the bottom of the tube provides good stability
- leak-proof cap
- low metal background and EPA-approved for digestions
- fit HotBlock and AutoBlock systems



Volume / ø	Description	Product #
50 ml	Digestion tube made of polypropylene • flat bottom • polypropylene screw cap with liner • dimensions 30 x 108 mm	EE75*-30/108-PP
50 ml	Digestion tube made of polypropylene • flat bottom • long tabs for good interaction with sample rack • polypropylene screw cap with liner • dimensions 30 x 108 mm	EE75*-30/108-PPE
30 mm	Watch glass to cover the tubes during digestion	EEWG-30
30 mm	Polypropylene reflux cap	EERC-30
	Transfer rack made of polycarbonate for safe transport or storage of digestion tubes, compatible with HotBlock and HotBlock Pro - 18 positions	EE35-18/050-PC

FilterMate™ - Filtration directly in the digestion tube

Soil, sludge, wastewater and challenging samples need to be filtered before analyses. The FilterMate fits directly into the digestion tube and is pushed through the liquid being filtered to the bottom of the tube with a detachable plunger. After filtration, the plunger can be easily removed and discarded, while the filter unit remains in the bottom of the vessel. The finished sample can be sealed for storage or filled directly into an autosampler vial.



FilterMate™ incl. plunger (for 50 ml Certi Tube) is available with the following membranes:

Membrane	Description / Pore size
PTFE coated polypropylene	suited for most applications • pore size 6.0 µm
Glass Fibre, acid washed	TCLP- extraction • pore size 0.7 µm
PTFE (certified)	Trace analyses • pore size 6.0 µm
PVDF or PTFE	with pre-filter, for dissolved metals • pore size 0.45 µm

FlipMate - Filtration unit

The FlipMate consists of two digestion tubes that are connected to a filter unit via the tube threads. The sample is placed in one of the tubes and screwed to the filter unit. The beaker and filter are now turned upside down and the collection tube is attached. Using a vacuum tube and pressure, the sample is drawn from the sample tube through the filter assembly into the empty tube.



Membrane	Description
Polyether Sulphone (PES)	with pre-filter • pore size 0.2 µm and 0.45 µm
Polyether Sulphone (PES)	without pre-filter • pore size 0.45 µm
Polyether Sulphone (PES)	wit PTFE pre-filter • certified for trace metals • pore size 0.45 µ
Polyether Sulphone (PES)	with Glass Fibre pre-filter • certified for trace metals • pore size 0.7 µm
Glass Fibre	Pore size 1.5 µm
Glass Fibre	with PTFE pre-filter • certified for trace metals • pore size 0.7 µm

"YETI" Syringe filters

With Luer Lock, membrane & pore size imprinted on filter housing for easy identification.



Filter diameter / approximate filtration volume

- 33 mm ≤ 200 ml sample volume
- 25 mm ≤ 100 ml sample volume
- 13 mm ≤ 10 ml sample volume
- 4 mm ≤ 2 ml sample volume

Pore sizes

0,1 - 10 µm

Membrane	Description
Nylon (N)	stable hydrophilic membrane, fast wetting, very high mechanical stability, wide application area as wide compatibility with aqueous and organic solvents, compatible with alkaline but not with strong acidic solvents
Polyether Sulphone (PES)	hydrophilic, high flow rates, low protein binding, low concentration of extractable substances
Polypropylene (PP)	hydrophobic, wide chemical compatibility even with aggressive solvents, low concentration of extractable substances, Gamma sterilisable
PTFE (P)	strongly hydrophobic, chemically inert to most organic solvents, alkalis and acids, if used with aqueous solvents pre-wetting of the membrane is required (eg. alcohol)
PTFE hydrophilic (P/Hy)	as above but may be used with aqueous solvents without pre-wetting of the membrane (0.2 µm and 0.45 µm pore sizes only)
Polyvinylidene-di-fluoride (PVDF)	hydrophilic, broad chemical resistance, low protein binding, low concentration of extractable substances
Regenerated Cellulose (RC)	hydrophilic, good solvent resistance, low unspecific protein adsorption, high mechanical stability, pH-compatible in the range 3-12
Mixed Cellulose Ester (MCE)	hydrophilic, allows high flow rates, high particle absorption capacity, high protein binding therefore suited for microbiological monitoring and diagnostic-kits

Which filter is the right one?

Which pore size for which application?

Application	Pore size
UHPLC	0.1 - 0.2 µm
Sterilisation	0.2 µm
HPLC	0.45 µm
Clarification	0.65 - 2 µm
Pre-filtration	3 - 10 µm

Which Ø for which filtration volume?

Filtration volume	Filter-Ø
≤ 2 ml	4 mm
1 - 10 ml	13 mm
10 - 100 ml	25 mm
> 100 ml	30 mm

Which membrane for which solvent?

Solvent	Suitable membrane
aqueous solvent	Mixed Cellulose Ester (MCE)
	Polyethersulphone (PES)
	Glass Fibre (GF)
biological solvent (hydrophilic)	Regenerated Cellulose (RC)
	Polyether sulphone (PES)
	Polyvinyliden-di-fluoride PVDF (PV)
aqueous-organic solvent	Nylon (N)
	Polyether Sulphone (PES)
	Regenerated Cellulose (RC)
organic solvent	Polypropylene (PP)
	Polytetrafluorethylene PTFE (P)

Please ask for samples.

Polypropylene syringes

HPLC filter syringes made of inert, chemical-resistant polypropylene (PP), with smudge-proof scale and transparent barrel. May not be used in human medicine.

With Luer Slip or Luer Lock

Luer slip - standard conical fitting, eccentric

Centred (Z) - standard conical fitting, centred

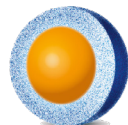
Luer Lock (LL) - twist-and-lock mechanism to create a secure fitting connection

HALO® Fused-Core columns

HALO® Fused-Core columns for UHPLC at HPLC pressure

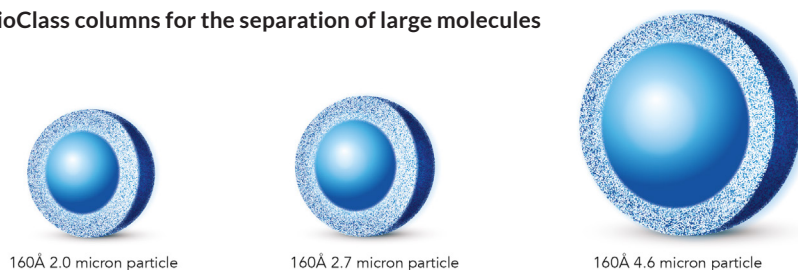
The Fused-Core particle technology fuses a porous shell to a solid core particle. The shorter diffusion path of the HALO® particles reduces axial dispersion of solutes and minimises peak broadening. This, compared to a totally porous particle, allows for faster flow rates. Because of the increased separation power of the HALO® column, it can either be used for faster analyses or an improved separation.

HALO® UHPLC columns for the separation of small molecules



Column	Properties / Application area
HALO® 2 µm - 90 Å	Has all the advantages of a fully porous sub-2 µm particle at lower pressure.
HALO® 2.7 µm - 90 Å	Reliable, efficient separation performance with lower back pressure compared to columns with particles < 2 µm.
HALO® 5 µm - 90 Å	Achieves the same separation as a fully porous 3 µm column with the pressure of a 5 µm column.

HALO® BioClass columns for the separation of large molecules



Column	Properties / Application area
HALO® BioClass Protein	Can be used for fast separation with both UHPLC and HPLC instruments at moderate back pressure. Available with 400 Å and 1000 Å pore sizes.
HALO® BioClass Peptide	Ideal for both ultra-fast and ultra-high resolution separation of peptides and polypeptides up to 20 kDa mass.
HALO® BioClass Glycan	Ideal for the separation of oligosaccharides, protein-linked glycans and glycopeptides

For more information on HALO® columns consult our website www.infochroma.ch or contact info@infochroma.ch to request the HALO catalogue.

HALO® 1.5 - a new dimension in chromatography

More separation power, less solvent consumption with the new HALO® 1.5 column.

Higher sensitivity

- increased signal in comparison to columns with ID 2.1 mm
- higher efficiencies in comparison to columns with ID 1.0 mm

Higher ionization efficiency

- higher intensity in MS detection due to reduced flow rate and smaller peaks

Reduced solvent consumption

- the smaller ID leads to lower optimal flow rates without sacrificing speed

Easy to implement microflow solution

The new 1.5 mm ID columns with 2.7 µm Fused-Core material are available for the analysis of small molecules as well as bio molecules.

- for small molecules: C18, LPH-C18, AQ-C18, Penta Hilic
- for bio molecules: ES-C18, Diphenyl, C4



HALO® Enviroclass - for environmental analyses

HALO® Enviroclass columns have been specially designed to address environmentally relevant substances.

- high efficiency separation
- excellent peak shapes
- high reproducibility at low back pressure

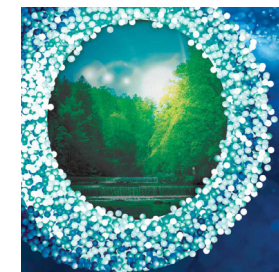
The following application-specific phases are available:

HALO® PAH

selective analyses of polycyclic aromatic hydrocarbon (PAH)

HALO® PFAS und PFAS-Delay

analyses of per- and polyfluorinated alkyl compounds (PFAS)



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- Glass stirring rods



Accessory for the lab

- Wash bottles
- Safety wash bottles
- Beakers
- Cork or rubber stoppers
- Paper filter and pH-paper
- Spatulas and scoops
- Pipettes
- Mortars
- Test tubes and accessory
- Gloves
- Wood4Seasons® Wood Oil



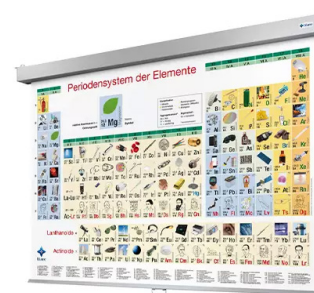
Measuring and Optical Instruments

- Measuring instruments such as density hydrometers, vinometers, hygrometers etc.
- Pluviometer
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Migration cells

Testing of food packaging following EU regulations

Packaging with direct food contact has to comply with EU regulations*. Switzerland adopted these regulations in the LGV. With the modular Sieg-Mi-Flex migration cells all kinds of samples may be tested in compliance with these regulations.

Properties of the migration cell System-Siegwerk (Sieg-Mi-Flex)

- the one sided contact without cutting edges may be set up for the simulation of migration from food contact materials
- may be used with liquid and solid food simulants
- available in stainless steel or borosilicate glass (PVDF on request)
- migration cell materials may be combined
- for the testing of different sizes of specimen surfaces, centre rings and reduction plates with defined surface/volume ratios are available
- all centre rings and reduction plates (stainless steel) are compatible with the ground plates



Migration cell, stainless steel

- temperature resistance: -15 °C - 180 °C
- pressure seal up to 9 bar
- most commonly used migration cell

Migration cell, borosilicate glass:

- temperature resistance: -15 °C - 130 °C
- pressure seal up to 1 bar
- high chemical resistance

Both migration cell types may be fitted with 1 or 2 packing specimen:

- fitted with 1 packing specimen (horizontal storage)
- fitted with 2 packing specimen (vertical storage)

**EU-regulations: 1935/2004 and 10/2011 (PIM) with amendment 1416/2016 to regulation 10/2011, as well as BfR-recommendations LGV: Swiss Regulation on food and commodities dated 16. December 2016*

Salli saddle chair

Sit actively and in a good posture with the Salli saddle chair - for laboratory and office use

Haven't we all experienced pain in the back, shoulders and neck after a long day in the office sitting on a classic office chair.

The ergonomically shaped Salli saddle chair guides the body into a good, active sitting posture and improves well being and productivity.

On the Salli saddle chair, the body weight is carried by the ischial tuberosities and the lower back forms a natural S-curve, similar to sitting on a riding saddle. This allows for a good posture of the back without unnecessary tensions. Because of the reduced physical load on the spine, the muscles in the shoulder and neck area can relax.



- upper and lower part of the body can move freely
- the good posture allows the rib cage to expand freely, breathing deepens
- blood circulation improves
- on the active seat, the muscles in the back and abdomen get a small workout



Salli chair type	Description
Salli SwingFit	two-part seat with adjustable middle gap and swing mechanism
Salli MultiAdjuster	two-part seat with adjustable middle gap and inclination
Salli Strong	two-part seat with adjustable inclination, extra strong
Salli Twin	two-part seat, fixed middle gap and inclination
Salli Slim SwingFit	two-part seat with adjustable middle gap and swing mechanism, for children or slender people

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