

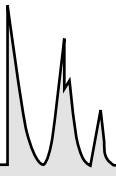
Chromatography Vials & Caps
Depyrogenated Vials & Closures
Storage Vials & Septum Vials
HPLC Filters & Syringes
Salli Saddle Chairs
Accessory & more



see also vials.ch as well as infochroma.ch and chemoline.ch

Catalogue 2018





Yetino Rodovich

Fläschli Joseph

Rosa Maria

Harry Hygiene

Carlo Carbon-Chroma

Vials and gnomes, how do they go together?

A justified question. The answer is simple. Both originate from Gräfenroda.

Gräfenroda is home to the Glastechnik Gräfenroda GmbH (GTG) where the GTG vials have been produced since the Wende. And in Gräfenroda gnomes have been lovingly handcrafted since 1874. Furthermore these companies as well as infochroma ag and chemoLine are entirely in family hands. The focus is on excellent product quality and service.

The gnomes have turned into a company tradition and have grown into a family. Gnomes are said to be clever, to possess good manual skills, to be hard working and honest. As virtual personality each gnome has a name. And with a wink we have assigned each of our gnomes with a mission.

2017 - Harry Hygiene

the Supervisor of the Controlled Zone

Gnome protective, Harry Hygiene keeps a close watch over the controlled zone. Under his supervision germs and pyrogenes have no chance of survival.

2011 - Yetino Rodovich

the Guardian of the Pure Sample

The Yeti Gnome watches over the purity of your sample so that it runs smoothly on its way to the analysis result without clogging the channels.

2014 - Carlo Carbon-Chroma - the Family Gnome

Carlo Carbon-Chroma has a C in the centre of a diamond on his jumper. This „C“ stands for the sixth element carbon, the molecular basis for all life on earth. It also represents chromatography and chemoLine and last but not least commitment for cohesion and solidarity within the family.

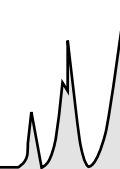
2010 - Rosa Maria

The Laboratory Lady Gnome

Rosa Maria is the patron saint of the laboratory. She watches over the accuracy of your analysis and protects your laboratory from wrong.

2012 - Fläschli Joseph - the Swiss Wrestling Gnome

Schwingen (Swiss wrestling) is a traditional Swiss contest, a contest of power in fairness and friendship. Thus our Fläschli Joseph represents the fairness in the daily competition of power at work and at home



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International

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Gnomes from the Garden Gnome manufactory

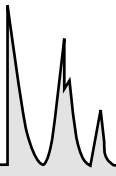
Philipp Griebel, Gräfenroda, D

www.zwergen-griebel.de

in Switzerland: www.zwergshop.ch

Catalogue 2017 Version 1801_180718

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Chromatography vials for optimised microsampling

Most chromatography autosamplers use vials with the dimension 12 x 32 mm. An optimised solution is asked for, if only a small amount of sample is available or full recovery of the sample is required.



Most chromatography autosamplers use vials with the dimension 12 x 32 mm. These vials take «2 ml» of sample. If only a small amount of sample is available or full recovery of the sample is required, an optimised solution is asked for. At the same time the vial should not require a support and the standard dimension of the vial should be kept to fit standard autosamplers.

We have 3 different microsampling vials that meet these requirements. There is one important question you have to ask yourself in order to find the right vial for your requirement. How much sample do you have and how much sample do you need for your analysis. The difference between those two, the sample volume that remains in the vial, we call residual volume. And this residual volume tells you which vial you need.

Many competitors talk about the so-called dead volume, the amount of sample that cannot be retrieved from the vial but this volume cannot be easily defined. How far the needle descends into the vial, the geometry of the needle, how much sample is

required to cover the needle hole so that no air is retrieved with the sample, all these aspects define the actual dead volume of an application. We find that giving the dead volume without exact specifications of these parameters does not make any sense.

The residual volume of our vials is defined by the following parameters: the remaining fluid level is at 4 mm from the bottom of the vial, given that normally the needle descends to about 1 - 2 mm above the bottom of the vial and the needle should be covered with at least 2 mm of sample in order to guarantee a reliable sample taking. The actual dead volume of our vials is generally much lower than the assumed fluid level at the bottom of the vial, but if you are using a needle with side hole 4 mm may be too little.

A standard 12 x 32 mm Vial for example has a residual volume of 400 µl.

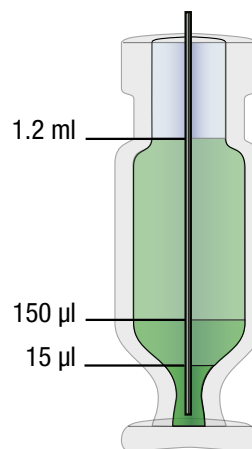
When to use which one of our 3 micro vials?

the 1.2 ml Vµ-Vial our „Vase Vial“



Our Vase Vial - the Vµ-Vial - has the largest volume. It takes 1.2 ml if filled to the shoulder and its residual volume is 15 µl.

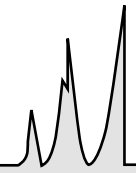
As the Vase Vial is the most economic solution, we recommend it for all applications with a residual volume of $\geq 15 \mu\text{l}$. The Vase Vial is also the most universal of our three microsampling vials as it is available with all common closure types including the 8-425 screw thread which we call «NM» or «Narrow Mouth» as it has a small opening. The Vase Vial is our own invention and the form as well as the production process is protected by an European patent.

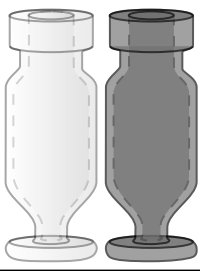
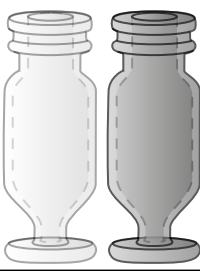
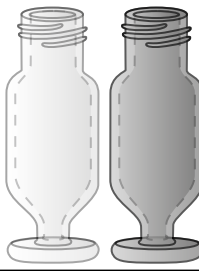
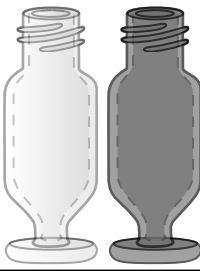
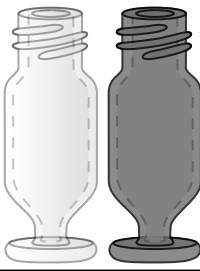


- **small residual volume**
- **no support required**
- **can be used with large and small volumes of sample**
- **available in clear (H) or amber (D) borosilicate glass**

Vµ-Vial: EP 0860365

Chromatography vials for optimised microsampling

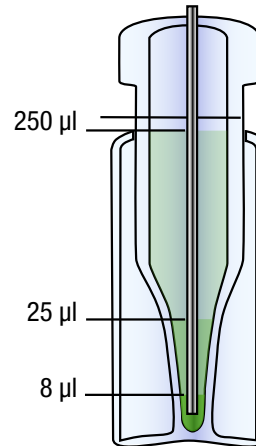





Crimp V μ -Vial	Snap/Crimp V μ -Vial	Agilent compatible Screw V μ -Vial	Narrow Mouth Screw V μ -Vial	Wide Mouth Screw V μ -Vial
				
8002-CV-H/V15μ 8002-CV-D/V15μ	8002-SC-H/V15μ 8002-SC-D/V15μ	8004-HP-H/V15μ 8004-HP-D/V15μ	8004-NM-H/V15μ 8004-NM-D/V15μ	8004-WM-H/V15μ 8004-WM-D/V15μ

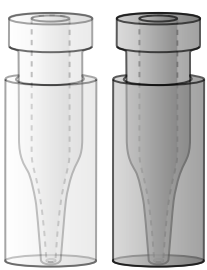
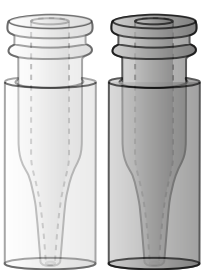
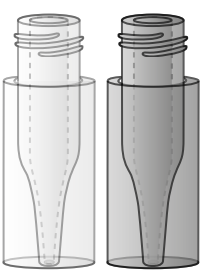
the 250 μ l Insert Vial iV2 μ - also ideal for volatile samples and micro-reactions

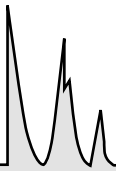


Our most recent development is the iV2 μ -Vial where the vial head is on the insert. Thus the insert itself is closed with the cap so that no sample can volatilise into the outer shell of the vial. The body of the vial is a simple shell which is fused with the insert at the bottom. We produce these vials on a one-station machine of our own design which allows us to draw the insert longer and more narrow than with common techniques. The total volume is 250 μ l and the residual volume is 8 μ l. The iV2 μ -Vial is especially suited for volatile micro samples and gas chromatography applications and completes our programme at the bottom end volume vise.



-  **insert itself closed with cap**
 the sample can't escape into the space between insert and outer shell; ideal for micro-reactions, for volatile samples and lyophilisation
-  **long narrow pointed insert**
 also suitable for side-hole needles; very small dead volume (< 5 μ l)
-  **established design**
 outer shell matches 12 x 32 mm standard; no support needed; very robust design

Crimp iV2 μ -Vial	Snap/Crimp iV2 μ -Vial	Agilent kompatibles Screw iV2 μ -Vial
		
8002-CV-H/iV2μ 8002-CV-D/iV2μ	8002-SC-H/iV2μ 8002-SC-D/iV2μ	8004-HP-H/iV2μ 8004-HP-D/iV2μ



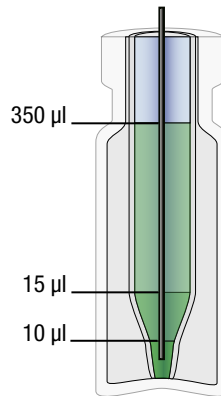
Chromatography vials for optimised microsampling

the μ -Vial with fused 350 μ l insert



Our first microvial, historically, is the $i3\mu$ type with a fused insert which forms a common base with the outer vial. In its functionality it is like using vial and insert only that the insert of the μ -Vial is firmly fused with the supporting vial which has

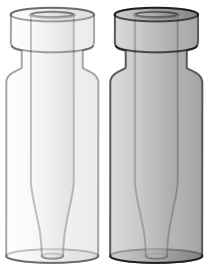
the advantage that the insert fits snug into the vial opening and stands upright without extra support. The total volume is 350 μ l with a residual volume of 10 μ l.



- 350 μ l insert fused into a standard 12 x 32 mm vial
- centred and upright insert
- robust design
- available in clear (H) or amber (D) borosilicate glass

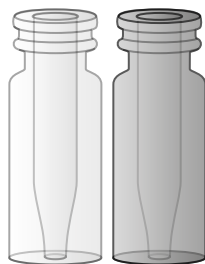
μ -Vial: Patent No. 196 12 265

Crimp μ -Vial



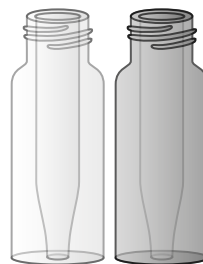
8002-CV-H/ $i3\mu$
8002-CV-D/ $i3\mu$

Snap/Crimp μ -Vial



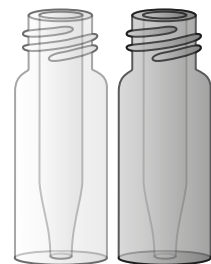
8002-SC-H/ $i3\mu$
8002-SC-D/ $i3\mu$

Agilent compatible Screw μ -Vial



8004-HP-H/ $i3\mu$
8004-HP-D/ $i3\mu$

Wide Mouth Screw μ -Vial



8004-WM-H/ $i3\mu$
8004-WM-D/ $i3\mu$

1.5 ml Vials with white write-on patch and graduation

Crimp-Vial



BL02-CV-H
BL02-CV-D

Snap/Crimp-Vial



BL02-SC-H
BL02-SC-D

Agilent compatible Screw-Vial

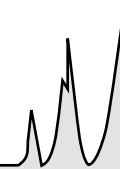


BL04-HP-H
BL04-HP-D

Glass:

H	clear glass
D	amber glass

pp-Pure Vial - Polypropylene vial



pp-Pure Vial - Polypropylene vial for sample volumes from 100 - 700 µl



Polypropylene vial which may be used for volumes from 100 - 700 µl.

available as

- Crimp Vial and Snap Crimp Vial (see pages 24 & 26)
- Agilent Technologies compatible Screw Vial (see page 28).

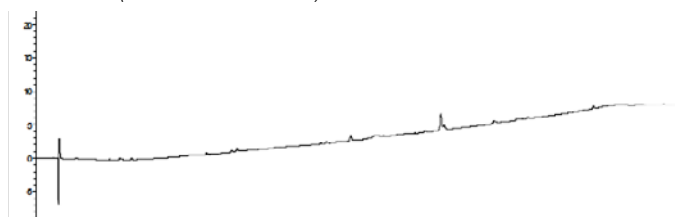
Test Conditions:

A pp-Pure Vial and a competitor's polypropylene vial were filled with a mixture of 1 : 1 acetonitrile/water. In addition, the pp-Pure Vial was immersed into a container containing the same solvent. After an incubation period of approx. 24h at room temperature, the solvents in the three containers were analysed for UV-active impurities from the containers' material by means of RP-HPLC.

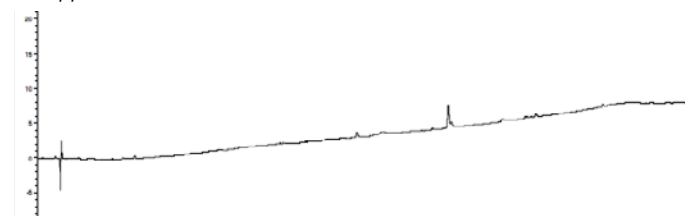
HPLC-Method:

The extracts were separated by RP-HPLC and an acetonitrile gradient. Detection was carried out in a low UV-range. This screening method allows the recording of a wide spectrum of potential extractable substances. As comparison served a mixture of lead compounds of often used plastic additives with a concentration of approx. 2.5 mg/l. The sensitivity of the method lies at approx. 0.5 mg/l (0.5 ppm).

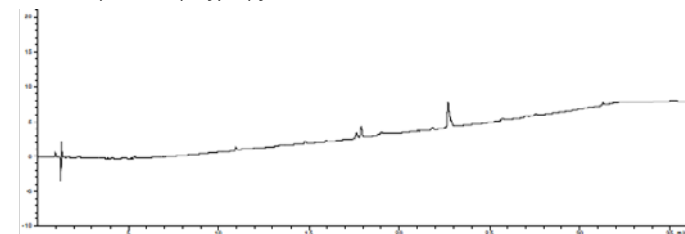
Blank (acetonitrile/water 1:1)



pp-Pure Vial



competitor's polypropylene vial



lead compounds	class of substances
Diethylphthalate	Phthalate (plasticiser)
Butylhydroxitoluole	Phenolic Antioxidants
Tinuvin 328	nitrogenous UV-stabiliser

Time	Mobile Phase A	Mobile Phase B
0 min.	95 %	5 %
30 min.	5 %	95 %
35 min.	5 %	95 %
36 min.	50 %	50 %

HPLC-Conditions:

Column: Nucleosil 120-3 C18 125*4 mm
 Flow: 1.0 mL/min.
 Detection: 220 and 340 nm
 Temperature: 40°C
 Injection Volume: 100 µl
 Mobile Phase A: 0.01 M Phosphorous Acid
 Mobile Phase B: Acetonitrile

pp-Pure Vial - In comparison with the blank there were no additional signals detected, neither in the filled nor in the immersed pp-Pure vial. The two chromatograms were identical.

competitors' polypropylene vial - In comparison to the blank there was a bigger signal in the retention area of 23 minutes.

KapOni-Pure - the septum free Septum Cap G094*-KOP02

With the wide use of MS Detectors and increasing sensitivity, there is an increased problem with ghost peaks in the daily analysis. These ghost peaks have their source in material with which the sample is coming into contact up to detection. One possibility to avoid this problem is the use of our ms-Pure septum, which is considerably cleaner because it is non-pigmented and was specifically developed to guarantee the best results in Chromatography.

But even the ms-Pure Septum can't perform miracles, it is after all still a silicone/PTFE septum. When the needle penetrates the septum, smallest particles of the septum are scraped off into the sample; these particles from the septum material may interfere in GC showing as depolymerised siloxane peaks.

Our solution is the KapOni-Pure a septum free septum, which is moulded from inert and plasticiser free pp-Pure polypropylene. The sealing element is moulded as a funnel with a thin moulded septum at the bottom end of the funnel which seals the vial; even after the seal has been penetrated by the syringe needle, the funnel functions as re-condensation zone so that evaporation is smaller than with standard one-piece PP caps with moulded septum. In addition the needle is guided by the funnel which lengthens the life span of the needle.



G094*-KOP02

9 mm screw cap with sealing element from inert and plasticiser free pp-Pure-polypropylene

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

					
B = blue	G = green	R = red	S = black	W = white	Y = yellow

www.chemoline.ch

Fläschli Joseph

(Product number: 57-0037)

Swiss wrestling gnome
made from terracotta
hand painted
height: approximately 27 cm
weight: approximately 450 g



www.chemoline.ch

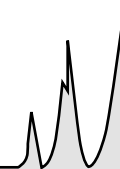
Crystal ball

(Product number: 56-1250)

Full glass ball for photo shootings
from clear borosilicate glass
diameter: 70 mm
comes in bag and
with wooden support ring



ms-Pure - non-pigmented silicone/PTFE septum

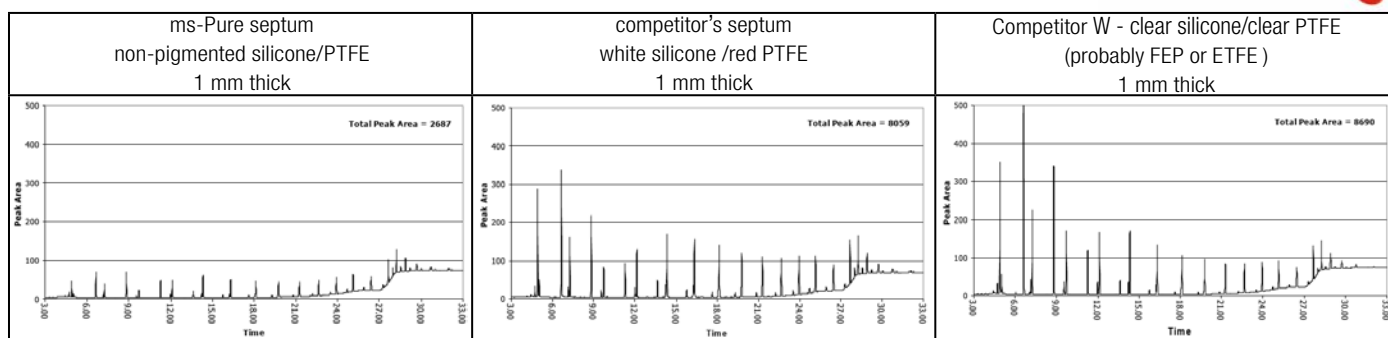


ms-Pure septum - non-pigmented silicone/PTFE septum

With the increasing sensitivity of analytical instruments there is an increasing demand for pure low bleed septum material to prevent sample contamination with extractable substances from the septum. The ms-Pure silicone/PTFE septum is produced from natural non-pigmented silicone/PTFE. Tests show that it is over 60 % cleaner than „standard“ silicone/PTFE septums on the market.



Evaluation of overall bleed characteristics using gas chromatography



ms-Pure septum ideal for MS applications:

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

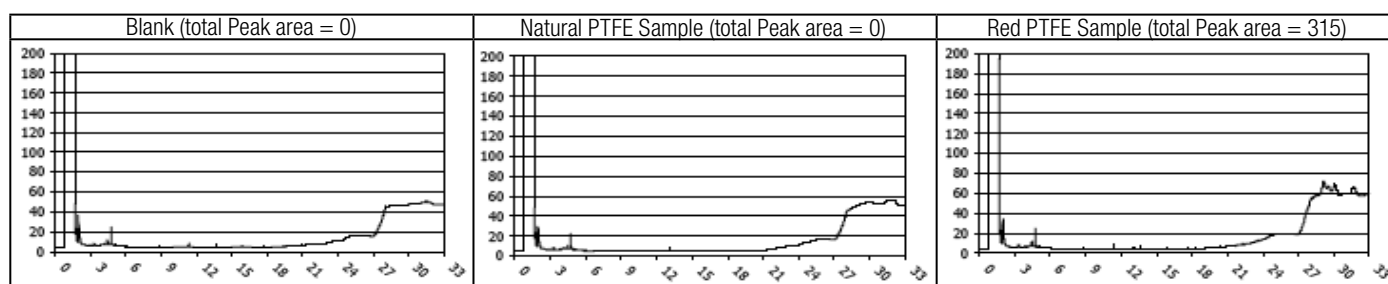
available as:

- silicone/PTFE
- silicone/PTFE pre-slit
- PTFE/silicon/PTFE



Bleed comparison between natural and red PTFE sample using gas chromatography

Intuitively, one would surmise that pigmented materials (i.e. those that are coloured in some way) would be more likely to pose as a contaminant source when compared to materials that are not pigmented. This study compares two (2) 0.01 mm thick samples of PTFE. One is red in colour and the other is non-pigmented or natural. The total peak area illustrates that the natural (non-pigmented) PTFE shows a value of (0) zero, while the red PTFE yielded a total peak area of 315. Using lower bleed materials provides truer readings, eliminates another potential error source, decreases sample contamination, and improves productivity.

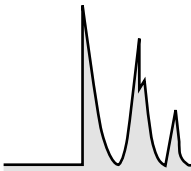


Procedure

GC: the septum was extracted in (50 mg/ml) dichloromethane:methanol (50:50) for 24 hours. It was then analysed via GC under the conditions on the right.

For control purposes a blank was carried out after each injection to prevent sample carry over.

Column	Agilent DB-1 30.0 m x 320 µm (19091Z-213)
Detection	FID
Gas flow	30 ml/min.
Air flow	400 ml/min.
Make-up gas	25.0 ml/min. (He)
Detector temperature	300 °C
Injection volume	1.0 µl (splitless)
Oven	50 °C kept for 3 minutes 50-100°C @ 25°C / min. 100-300°C @10°C/min. 300-325°C @25°C/min. (kept for 5 minutes)
Pressure	25 psi during 27 Min., 50 psi during 27-33 min.



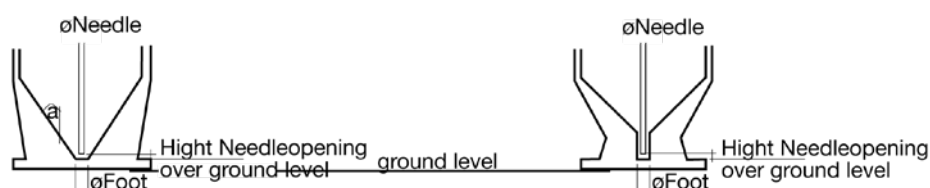
VMax-Vial - the big „Vase“ for optimised microsampling

We can produce any standard vial up to 60 ml with our patented „Vase“ foot for optimised microsampling.

The VMax-Vial has a cylindrical foot. We chose a „cylindrical foot“ over a „cone foot“ as we think a cylindrical foot is technically superior for the sample taking in an autosampler.

A sampler usually pierces the sealing septum with a needle which descends to a defined height to take the sample. The needle has two functions, to pierce the septum and to withdraw the sample. The needle should be formed so that it easily pierces the septum. If the needle has a bevel tip it must not hit the bottom of the vial or the needle tip will be bent which will negatively influence the further piercing of the septum. If the needle has a cone tip it must not hit the bottom of the vial either as the needle whole could become sealed by the vial bottom so that no sample is taken. If a needle with side hole is used the system may be adjusted so that the needle tip rests on the bottom of the vial but still the needle hole is above the bottom of the vial. Independent of the needle geometry, the highest point at which the sample enters the needle defines the death volume of a vial.

In order to get the maximum sample return, air should usually not be sucked into the needle with the sample. This requires minimal sample coverage over the needle hole. For most samplers, it can be said that the needle descends to a defined level above the intended withdrawing level (commonly 2.5 mm above withdrawing level). As the withdrawing level is at the bottom of the vial, the vial producer must assure that the vial bottom has a reproducible inner height. The dead volume can be derived with the measure that the bottom of the vial has a radius r ($=\varnothing$ foot/2) and the needle hole is above the bottom at height h .



The death volume of the cone version forms a cone stump with the side angle a ; the cylindrical version, as produced by GTG, forms a cylinder.

The death volume of the cone version results in $V_{KS} = \pi \cdot h / 3 (3r^2 + h^2 \tan^2(a) + 2r \cdot h \cdot \tan(a))$

The death volume of the cylindrical version results in: $V_{Zyl} = \pi \cdot r^2 \cdot h$

in this example applies: death volume to needle hole $r = 1.5$ mm, $h = 1.5$ mm and $a = 45^\circ \rightarrow \tan(a) = 1$

$V_{KS} = 21.2 \mu\text{l}$

$V_{Zyl} = 10.6 \mu\text{l}$

This means that the dead volume of the cone version is bigger by a share of $\pi \cdot h / 3 (h^2 \cdot \tan^2(a) + 2r \cdot h \cdot \tan(a))$. With an angle a bigger 45° , $\tan(a) > 1$ and increases considerably. The same results when the needle hole has to be covered with sample. In this case height $h =$ height h (needle above base) + \ddot{u} (coverage with sample).

in this example applies:

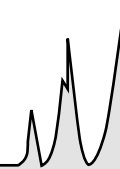
death volume to coverage $r = 1.5$ mm, $h = h + \ddot{u} = 1.5$ mm + 2.0 mm = 3.5 mm and $a = 45^\circ \rightarrow \tan(a) = 1$

$V_{KS} = 108.1 \mu\text{l}$

$V_{Zyl} = 24.7 \mu\text{l}$

It can be concluded that in order to minimise death volume $\tan(a)$ one has to aim towards zero which means that a cylindrical solution is an advantage. The actual death volume has to be reduced by the displacement volume of the needle but the influence is the same for both cylindrical and conical and therefore is not shown in this calculation.

We are able to form the foot with a thorn such as is required by the geometry of the needle under the adherence of certain measurements.



VMax-Vial - the big „Vase“ for optimised micro-sampling

- ☛ the “big” Vase Vial, volumes up to 60 ml
- ☛ stand alone, no support needed
- ☛ can be produced in any size up to 60 ml, 35 mm min. vial height required
- ☛ available with crimp or screw-top
- ☛ ideal for automated sample preparation

Screw-top VMax-Vial

G072-14/045-H/VMμ G072-14/045-D/VMμ 3.5 ml screw-top VMax-Vial, clear (H) or amber (D) borosilicate glass, size: 14 x 45 mm, screw thread 13-425	G072-19/065-H/VMμ G072-19/065-D/VMμ 9.5 ml screw-top VMax-Vial, clear (H) or amber (D) borosilicate glass, size: 19 x 65 mm, screw thread 15-425
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G072-27/057-H/VMμ G072-27/057-D/VMμ 19 ml screw-top VMax-Vial, clear (H) or amber (D) borosilicate glass, size: 27 x 57 mm, screw thread 24-400	G072-27/095-H/VMμ G072-27/095-D/VMμ 39 ml screw-top VMax-Vial, clear (H) or amber (D) borosilicate glass, size: 27 x 95 mm, screw thread 24-400	G072-27/140-H/VMμ G072-27/140-D/VMμ 59 ml screw-top VMax-Vial, clear (H) or amber (D) borosilicate glass, size: 27 x 140 mm, screw thread 24-400
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Open-top screw caps with silicone/PTFE septum: refer to page 46 - 47.

Closed top, PTFE lined screw caps: see page 18.

20 mm crimp-top headspace VMax-Vial

G006-23/045-H/VMμ G006-23/045-D/VMμ 9.5 ml crimp-top VMax-Vial, clear (H) or amber (D) borosilicate glass, size: 23 x 45 mm	G006-23/075-H/VMμ G006-23/075-D/VMμ 19 ml crimp-top VMax-Vial, clear (H) or amber (D) borosilicate glass, size: 23 x 75 mm
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Crimp caps: see page 38.



Screw-top headspace VMax-Vial

GHS6-23/043-H/VMμ GHS6-23/043-D/VMμ 9.5 ml screw-top VMax-Vial, clear (H) or amber (D) borosilicate glass, size: 23 x 43 mm	GHS6-23/073-H/VMμ GHS6-23/073-D/VMμ 19 ml screw-top VMax-Vial, clear (H) or amber (D) borosilicate glass, size: 23 x 73 mm
---	--

Open-top screw caps with septum: refer to page 39.





Closed-top screw caps: see page 18.




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

Our Storage Vial line comprises 6 vial diameters and over 30 different dimensions within the volumes of 1.0 - 60 ml. The vials come assembled with closed-top PTFE lined screw cap and are supplied in a high quality card board box with a grit divider holding 100 vials. The box is also ideally suited for storing or for transportation of the vials.



				
	Vial ø 12 mm Screw thread 9-425	Vial ø 14 mm Screw thread 13-425	Vial ø 17 mm Screw thread 15-425	Vial ø 19 mm Screw thread 15-425
Kit	height: 24 mm height: 32 mm, V μ -Vial height: 32 mm assorted G195X-12Kit02-H G195X-12Kit02-D	height: 26 mm height: 30 mm height: 45 mm height: 50 mm assorted G075X-14Kit05-H G075X-14Kit05-D	height: 27 mm height: 35 mm height: 42 mm height: 60 mm height: 72 mm assorted G075X-17Kit10-H G075X-17Kit10-D	height: 37 mm height: 50 mm height: 65 mm height: 87 mm assorted G075X-19Kit15-H G075X-19Kit15-D
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/V15 μ G195*-12/032-D/V15 μ			
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: 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

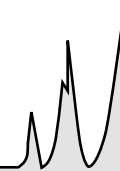
replace «*» with the **cap colour** of your choice:





					
B = blue	G = green	R = red	S = black	W = white	Y = yellow

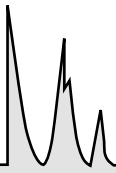
Glass:

H	clear glass
D	amber glass

Storage Vials



				
	Vial ø 17 mm Screw thread 15-425	Vial ø 19 mm Screw thread 15-425	Vial ø 23 mm Screw thread 20-400	Vial ø 27 mm Screw thread 24-400
Kit	height: 27 mm height: 35 mm height: 42 mm height: 60 mm height: 72 mm assorted G075X-17Kit10-H G075X-17Kit10-D	height: 37 mm height: 50 mm height: 65 mm height: 87 mm assorted G075X-19Kit15-H G075X-19Kit15-D	height: 37 mm height: 45 mm height: 60 mm height: 75 mm height: 85 mm assorted G075X-23Kit25-H G075X-23Kit25-D	height: 37 mm, height: 47 mm height: 57 mm, height: 68 mm assorted G075X-27Kit25-H G075X-27Kit25-D height: 78 mm, height: 95 mm height: 118 mm, height: 140 mm assorted G075X-27Kit60-H G075X-27Kit60-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	height: 37 mm G075*-23/037-H G075*-23/037-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	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 <i>Vial with round base</i>



Storage Vial with closed-top, PTFE lined screw cap

Storage Vials are supplied assembled with their closed-top, PTFE lined screw cap and are packed in high quality card board boxes with a grit divider holding 100 vials.



Storage Vial with glass-fibre enforced polyamide screw cap

1.0 ml - 2 ml Storage Vials: \varnothing 12 mm, screw thread 9-425 («HP» type)



1.0 ml 12 x 24 mm	1.2 ml V μ 12 x 32 mm <i>with small residual volume</i>	1.5 ml 12 x 32 mm
G195*-12/024-H G195*-12/024-D	G195*-12/032-H/V15 μ G195*-12/032-D/V15 μ	G195*-12/032-H G195*-12/032-D

Storage Vial with polypropylene screw cap

1.0 ml - 5 ml Storage Vials: \varnothing 14 mm, screw thread 13-425



1.0 ml 14 x 19 mm	1.5 ml 14 x 22 mm	2 ml 14 x 26 mm	2.5 ml 14 x 30 mm	3.75 ml 14 x 45 mm	5 ml 14 x 50 mm
G075*-14/019-H G075*-14/019-D	G075*-14/022-H G075*-14/022-D	G075*-14/026-H G075*-14/026-D	G075*-14/030-H G075*-14/030-D	G075*-14/045-H G075*-14/045-D	G075*-14/050-H G075*-14/050-D

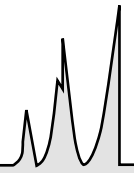
replace «*» with the **cap colour** of your choice:

B = blue	G = green	R = red	S = black	W = white	Y = yellow

Glass:

H	clear glass
D	amber glass

Storage Vials



2.5 ml - 10 ml Storage Vials: ø 17 mm, screw thread 15-425

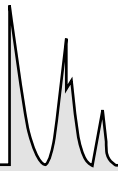


2.5 ml 17 x 27 mm	3.75 ml 17 x 35 mm	5 ml 17 x 42 mm	7.5 ml 17 x 60 mm	10 ml 17 x 72 mm
G075*-17/027-H G075*-17/027-D	G075*-17/035-H G075*-17/035-D	G075*-17/042-H G075*-17/042-D	G075*-17/060-H G075*-17/060-D	G075*-17/072-H G075*-17/072-D

5 ml - 15 ml Storage Vials: ø 19 mm, screw thread 15-425



5 ml 19 x 37 mm	7.5 ml 19 x 50 mm	10 ml 19 x 65 mm	15 ml 19 x 87 mm
G075*-19/037-H G075*-19/037-D	G075*-19/050-H G075*-19/050-D	G075*-19/065-H G075*-19/065-D	G075*-19/087-H G075*-19/087-D



Storage Vials

Storage Vial with closed-top, PTFE lined screw cap

Storage Vials are supplied assembled with their closed-top, PTFE lined screw cap and are packed in high quality card board boxes with a grit divider holding 100 vials.



7.5 ml - 25 ml Storage Vial with closed-top, PTFE lined screw cap: \varnothing 23 mm, screw thread 20-400



7.5 ml 23 x 37 mm	10 ml 23 x 45 mm	15 ml 23 x 60 mm	20 ml 23 x 75 mm	25 ml 23 x 85 mm
G075*-23/037-H G075*-23/037-D	G075*-23/045-H G075*-23/045-D	G075*-23/060-H G075*-23/060-D	G075*-23/075-H G075*-23/075-D	G075*-23/085-H G075*-23/085-D

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

B = blue	G = green	R = red	S = black	W = white	Y = yellow

Glass:

H	clear glass
D	amber glass

www.chemoline.ch

Hoody «overreaction»

(Product number: size L : 56-5402)

80% cotton (325 g/m²)
and 20% polyester
various colours available



www.chemoline.ch

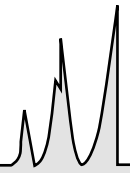
pharmacist bottles with groundglass stopper

(Product number: 50 ml amber glass: 50-4051)

clear or amber glass
various volumes available



Storage Vials



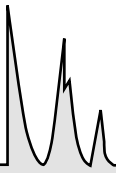
10 ml - 60 ml Storage Vial with closed-top screw cap: ø 27 mm, screw thread 24-400



10 ml 27x 37 mm	15 ml 27 x 47 mm	20 ml 27 x 57 mm	25 ml 27x 68 mm
G075*-27/037-H G075*-27/037-D	G075*-27/047-H G075*-27/047-D	G075*-27/057-H G075*-27/057-D	G075*-27/068-H G075*-27/068-D



30 ml 27 x 78 mm	40 ml 27 x 95 mm	50 ml 27 x 118 mm	60 ml 27 x 140 mm	60 ml 27 x 140 mm
G075*-27/078-H G075*-27/078-D	G075*-27/095-H G075*-27/095-D	G075*-27/118-H G075*-27/118-D	G075*-27/140-H G075*-27/140-D	vial with round base G055*-27/140-H



Storage Vials

1.0 ml - 5 ml Storage Vial with "hard" Melamine Resin screw cap (may be used up to 120°C)

Vials ø 14 mm, screw thread 13-425

Storage Vial with «hard» Melamine Resin PTFE lined screw cap which may be used up to 120 °C. Vials and caps are supplied assembled and are packed in high quality card board boxes with a grit divider holding 100 vials.



1.0 ml 14 x 19 mm	1.5 ml 14 x 22 mm	2 ml 14 x 26 mm	2.5 ml 14 x 30 mm	3.75 ml 14 x 45 mm	5 ml 14 x 50 mm
G085*-14/019-H G085*-14/019-D	G085*-14/022-H G085*-14/022-D	G085*-14/026-H G085*-14/026-D	G085*-14/030-H G085*-14/030-D	G085*-14/045-H G085*-14/045-D	G085*-14/050-H G085*-14/050-D

Closed-top, PTFE lined screw caps

Screw threads: 9-425, 13-425, 15-425, 20-400 & 24-400

	<p>Screw thread 9-425</p> <p>PTFE-lined Polyamide Screw Cap (Type "HP"), ribbed cap collar, for Storage Vials with volumes 1.0 ml - 2 ml; Vial ø 12 mm</p> <p>G195-C*/09</p>		<p>Screw thread 15-425</p> <p>PTFE-lined Polypropylene Screw Cap for Storage Vials with volumes 2.5 ml - 15 ml; Vial ø 17 mm & 19 mm; may be used up to 80°C</p> <p>G075-C*/15</p>
	<p>Screw thread 13-425</p> <p>PTFE-lined Melamine Resin Screw Cap for Storage Vials with volumes 1.0 ml - 5 ml; Vial ø 14 mm; may be used up to 120°C</p> <p>G085-C*/13</p>		<p>Screw thread 20-400</p> <p>PTFE-lined Polypropylene Screw Cap for Storage Vials with volumes 7.5 ml - 25 ml; Vial ø 23 mm; may be used up to 80°C</p> <p>G075-C*/20</p>
	<p>Screw thread 13-425</p> <p>PTFE-lined Polypropylene Screw Cap for Storage Vials with volumes 1.0 ml - 5 ml; Vial ø 14 mm; may be used up to 80°C</p> <p>G075-C*/13</p>		<p>Screw thread 24-400</p> <p>PTFE-lined Polypropylene Screw Cap for Storage Vials with volumes 10 ml - 60 ml; Vial ø 27 mm; may be used up to 80°C</p> <p>G075-C*/24</p>

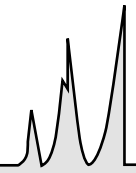
replace «*» with the **cap colour** of your choice:

B = blue	G = green	R = red	S = black	W = white	Y = yellow

Glass:

H	clear glass
D	amber glass

Storage Vials for long-term storage



10 & 20 ml Storage Vials for the long-term storage of volatile samples

10 and 20 ml Headspace Vials with closed-top melamine resin screw caps for the long-term storage of volatile samples. The screw caps are available in our six standard colours, either PTFE lined or with butyl rubber/PTFE septum.

with PTFE lined screw cap



GH85*-23/043-H

10 ml Storage Vials,
clear glass, rounded base,
size 23 x 43 mm

assembled with high density, closed-top,
PTFE lined screw cap



GH85*-23/073-H

20 ml Storage Vials,
clear glass, rounded base,
size 23 x 73 mm

assembled with high density, closed-top,
PTFE lined screw cap

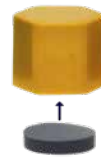
with butyl rubber/PTFE septum



GH85*-23/043-BZFZ31-H

10 ml Storage Vials,
clear glass, rounded base,
size 23 x 43 mm

assembled with high density, closed-top
screw cap with butyl rubber/PTFE septum



GH85*-23/073-BZFZ31-H

20 ml Storage Vials,
clear glass, rounded base,
size 23 x 73 mm

assembled with high density, closed-top
screw cap with butyl rubber/PTFE septum

*also available graduated,
see below & page 33*

Graduated 20 ml Storage Vial for the long-term storage of volatile samples

20 ml Headspace Vials with closed-top melamine resin screw cap for the long-term storage of volatile samples. Available either PTFE lined or assembled with butyl rubber/PTFE septum.



GH85*-23/073-H/G

20 ml Storage Vial,
graduated at 5, 10 & 15 ml,
clear glass, rounded base,
size 23 x 73 mm

assembled with high density, closed-top,
PTFE lined screw cap



GH85*-23/073-BZFZ31-H/G

20 ml Storage Vial,
graduated at 5, 10 & 15 ml,
clear glass, rounded base,
size 23 x 73 mm

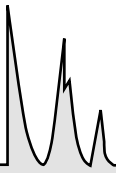
assembled with high density, closed-
top screw cap with butyl rubber/PTFE
septum

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

					
B = blue	G = green	R = red	S = black	W = white	Y = yellow

Glass:

H	clear glass
D	amber glass

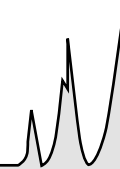


Sample Bottles complete with closed-top screw cap, volumes from 6 ml - 2500 ml



	Clear & amber Boston Round bottle	Amber wide mouth bottle	Clear wide mouth bottle	Clear square wide mouth bottle	Clear graduated wide mouth bottle	Clear & amber straight sided wide mouth bottle
6 ml		24 x 43 mm				
15 ml		31 x 50 mm		25 x 61 mm		
30 ml	31 x 79 mm*	37 x 65 mm		31 x 72 mm 34 x 61 mm	34 x 68 mm	43 x 43 mm*
60 ml	39 x 94 mm	45 x 75 mm		38 x 86 mm 39 x 89 mm	42 x 83 mm	55 x 49 mm
120 ml	49 x 114 mm	54 x 95 mm	52 x 96 mm	45 x 112 mm	51 x 102 mm	60 x 69 mm
180 ml						65 x 79 mm
240 ml	61 x 138 mm		62 x 104 mm	56 x 137 mm	62 x 127 mm	73 x 89 mm
250 ml		65 x 120 mm				
300 ml		65 x 100 mm				
480 ml	70 x 160 mm	70 x 140 mm	72 x 133 mm	68 x 167 mm	70 x 130 mm	91 x 96 mm
960 ml	90 x 190 mm	90 x 160 mm	94 x 177 mm	83 x 203 mm		95 x 170 mm
1000 ml	92 x 205 mm**	99 x 178 mm				
1250 ml		106 x 190 mm				
1920 ml			122 x 214 mm			
2500 ml		140 x 239 mm				
	** clear glass only ** amber glass only					* clear glass only

Sample Bottles



Clear & amber Boston Round Bottle

with PTFE-lined closed-top heat tolerant (max. 120°C) Thermoset plastic screw cap



volume	30 ml	60 ml	120 ml	240 ml	480 ml
dimension	31 x 79 mm	39 x 94 mm	49 x 114 mm	61 x 138 mm	70 x 160 mm
bottle with cap	8080-BR-30-H	8080-BR-60-H	8080-BR-120-H	8080-BR-240-H	8080-BR-480-H
bottle with cap	-	8080-BR-60-D	8080-BR-120-D	8080-BR-240-D	8080-BR-480-D
screw cap only	8080-C/20	8080-C/20	8080-C/22	8080-C/24	8080-C/28

volume	960 ml	1000 ml
dimension	90 x 190 mm	92 x 205
bottle with cap	8080-BR-960-H	-
bottle with cap	8080-BR-960-D	8080-BR-1000-D
screw cap only	8080-C/33	8080-C/33

Amber wide mouth bottle

with PTFE-lined closed-top heat tolerant (max. 120°C) Thermoset plastic screw cap



volume	6 ml	15 ml	30 ml	60 ml	120 ml
dimension	24 x 43 mm	31 x 50 mm	37 x 65 mm	45 x 75 mm	54 x 95 mm
bottle with cap	8080-WM-06-D	8080-WM-15-D	8080-WM-30-D	8080-WM-60-D	8080-WM-120-D
screw cap only	8080-C/20	8080-C/28	8080-C/28	8080-C/33	8080-C/38

volume	250 ml	300 ml	480 ml	950 ml	1250 ml
dimension	65 x 120 mm	65 x 100 mm	70 x 140 mm	90 x 160 mm	106 x 190
bottle with cap	8080-WM-250-D	8080-WM-300-D	8080-WM-480-D	8080-WM-950-D	8080-WM-1250-D
screw cap only	8080-C/45	8080-C/53	8080-C/53	8080-C/53	8080-C/70

Amber wide mouth bottle

with PTFE-lined closed-top polypropylene screw cap



volume	15 ml	30 ml	60 ml	125 ml	250 ml
dimension	31 x 50 mm	37 x 65 mm	45 x 75 mm	54 x 95 mm	65 x 120 mm
bottle with cap	8075-WM-15-D	8075-WM-30-D	8075-WM-60-D	8075-WM-125-D	8075-WM-250-D
screw cap only	8075-C/28	8075-C/28	8075-C/33	8075-C/38	8075-C/45

volume	500 ml	1000 ml	1250 ml	2500 ml
dimension	80 x 146 mm	99 x 178 mm	106 x 190 mm	140 x 239 mm
bottle with cap	8075-WM-500-D	8075-WM-1000-D	8075-WM-1250-D	8075-WM-2500-D
screw cap only	8075-C/53	8075-C/53	8075-C/70	8075-C/70

Clear wide mouth bottle

with PTFE-lined closed-top heat tolerant (max. 120°C) Thermoset plastic screw cap



volume	120 ml	240 ml	480 ml	960 ml	1920 ml
dimension	52 x 96 mm	62 x 104 mm	72 x 133 mm	94 x 177 mm	122 x 214 mm
bottle with cap	8080-WM-120-H	8080-WM-240-H	8080-WM-480-H	8080-WM-960-H	8080-WM-1920-H
screw cap only	8080-C/48	8080-C/58	8080-C/63	8080-C/70	8080-C/89

Amber wide mouth and Boston Round bottles are also available pre-cleaned and safety coated. Further information on: <http://www.infochroma.ch/eng/probenaufbewahrung/index.html>

Glass:

H	clear glass
D	amber glass

Clear square wide mouth bottle

with PTFE-lined closed-top heat tolerant (max. 120°C) Thermoset plastic screw cap



volume	15 ml	30 ml	30 ml	60 ml	60 ml
dimension	25 x 61 mm	31 x 72 mm	34 x 61 mm	38 x 86 mm	39 x 89 mm
bottle with cap	8080-FS-15-H	8080-FS-30-H	8080-ST-30-H	8080-FS-60-H	8080-ST-60-H
screw cap only	8080-C/20	8080-C/24	8080-C/24	8080-C/28	8080-C/33

volume	120 ml	240 ml	480 ml	960 ml
dimension	45 x 112 mm	56 x 137 mm	68 x 167 mm	83 x 203 mm
bottle with cap	8080-FS-120-H	8080-FS-240-H	8080-FS-480-H	8080-FS-960-H
screw cap only	8080-C/33	8080-C/43	8080-C/48	8080-C/58

Clear graduated wide mouth bottle

with PTFE-lined closed-top heat tolerant (max. 120°C) Thermoset plastic screw cap



volume	30 ml	60 ml	120 ml	240 ml	480 ml
dimension	34 x 68 mm	42 x 83 mm	51 x 102 mm	62 x 127 mm	70 x 130 mm
bottle with cap	8080-MM-30-H	8080-MM-60-H	8080-MM-120-H	8080-MM-240-H	8080-MM-480-H
screw cap only	8080-C/33	8080-C/38	8080-C/48	8080-C/58	8080-C/70

Clear & amber straight sided wide mouth bottle

with PTFE-lined closed-top heat tolerant (max. 120°C) Thermoset plastic screw cap



volume	30 ml	60 ml	120 ml	180 ml	240 ml
dimension	43 x 43 mm	55 x 49 mm	60 x 69 mm	65 x 79 mm	73 x 89 mm
bottle with cap	8080-SR-30-H	8080-SR-60-H	8080-SR-120-H	8080-SR-180-H	8080-SR-240-H
bottle with cap	-	8080-SR-60-D	8080-SR-120-D	8080-SR-180-D	8080-SR-240-D
screw cap only	8080-C/43	8080-C/53	8080-C/58	8080-C/63	8080-C/70

volume	480 ml	960 ml
dimension	91 x 96 mm	95 x 170 mm
bottle with cap	8080-SR-480-H	8080-SR-960-H
bottle with cap	8080-SR-480-D	8080-SR-960-D
screw cap only	8080-C/89	8080-C/89

Glass:

H	clear glass
D	amber glass

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The chemist's aperitif set

(Product number: 50-1182)

The set contains:

- 1 wide-mouth Erlenmeyer flask (1 litre) with cork stopper
- 4 wide-mouth Erlenmeyer flasks (50 ml)



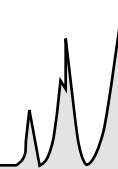
www.chemoline.ch

Paper pH test strip with universal indicator

(Product number: 50-1681)

The plastic dispenser box contains 200 pH test strips (10 x 70 mm)





Closed-top or open-top screw caps



	Closed-top heat tolerant (max. 120°C) Thermoset plastic screw cap, PTFE lined Cap colour green	Closed-top polypropylene screw cap with PTFE septum Cap colour white	Open-top polypropylene screw cap with silicone/PTFE septum Cap colour white
screw thread	product no.	product no.	product no.
20-400	8080-C/20	8075-C/20	G074W-SKFW34/20
22-400	8080-C/22	8075-C/22	-
24-400	8080-C/24	8075-C/24	G074W-SKFW34/24
28-400	8080-C/28	8075-C/28	8B80W-C/28 (bonded)
33-400	8080-C/33	8075-C/33	8B80W-C/33 (bonded)
38-400	8080-C/38	8075-C/38	-
43-400	8080-C/43	8075-C/43	-
45-400	8080-C/45	8075-C/45	-
48-400	8080-C/48	8075-C/48	-
53-400	8080-C/53	8075-C/53	-
58-400	8080-C/58	8075-C/58	8B80W-C/58 (bonded)
63-400	8080-C/63	8075-C/63	-
70-400	8080-C/70	8075-C/70	-
83-400	8080-C/83	-	-
89-400	8080-C/89	8075-C/89	-

www.infochroma.ch

Salli saddle chair

(Product number: MultiAdjuster red: SalliMulti-MBL05011-WR)

split saddle chair
for a natural posture

Various models in various
colours available



www.chemoline.ch

Beaker

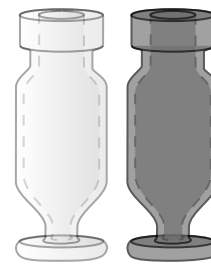
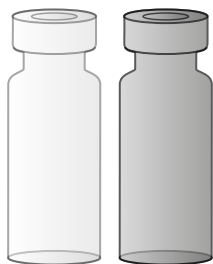
(Product number: 400 ml: 50-1546)

Low form
with handle and beak-shaped
spout, made from
SIMAX®-laboratory glass

various sizes available



12 x 32 mm Crimp vials & caps



G002-CV-H
G002-CV-D

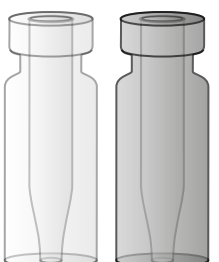
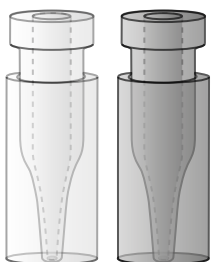
1.5 ml crimp vial,
clear or amber borosilicate glass,
size: 12 x 32 mm

BL02-CV-H
BL02-CV-D

1.5 ml crimp vial with
white write-on patch and graduation,
clear or amber borosilicate glass,
size: 12 x 32 mm

8002-CV-H/V15μ
8002-CV-D/V15μ

1.2 ml crimp Vμ-Vial,
clear or amber borosilicate glass,
15 μl residual volume,
size: 12 x 32 mm



8002-CV-H/iV2μ
8002-CV-D/iV2μ

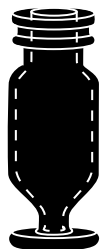
Crimp iV2μ-Vial, clear or amber borosilicate
glass, with pointed narrow 250 μl insert,
insert directly closed with cap,
8 μl residual volume,
size: 12 x 32 mm

8002-CV-H/i3μ
8002-CV-D/i3μ

Crimp μ-Vial,
clear or amber borosilicate glass,
fused 350 μl insert,
10 μl residual volume,
size: 12 x 32 mm

G002-SC-PP/i17μ

700 μl snap/crimp vial, polypropylene,
may be used for 100 μl - 700 μl,
size: 12 x 32 mm



8002-CV-D/V15μ/BLACK

for light sensitive samples
1.2 ml crimp Vμ-Vial, amber
borosilicate glass with black,
opaque coating,
size: 12 x 32 mm

Crimping and de-capping tools

plain cap manual hand crimper,
height adjustable

for 11 mm crimp caps G002-CZ
for 20 mm crimp caps G006-CZ



manual hand de-capper

for 11 mm crimp caps G002-DCZ
for 20 mm crimp caps G006-DCZ

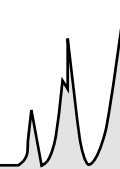


further crimping and de-capping tools see page 37

Glass:

H	clear glass
D	amber glass

Crimp vials & caps



Aluminium crimp caps










Aluminium crimp caps with rubber/PTFE septum for routine analysis should also have the necessary purity and be produced within the necessary tolerances. We noticed that the cheapest types don't necessarily meet the quality requirements of our customers.

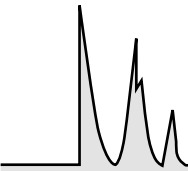
Therefore our standard caps are tested for extractable substances in cooperation with Interlabor Belp, CH. For the convenient handling in the laboratory our caps are supplied in a clear PET screw-top box.



With the increased sensitivity of detectors, there is an increased problem of ghost-peaks sourcing from phthalate and siloxane bleeding from the septum, which is used to seal the vial. Our ms-Pure silicone/PTFE septum minimises the risk of ghost peaks. However, if the source of the ghost peak is siloxane, we recommend the use of an aluminium septum with a PTFE sealing ring to prevent ghost peaks in your analysis.

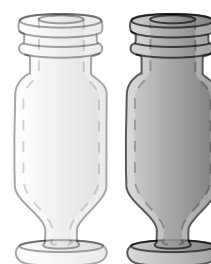
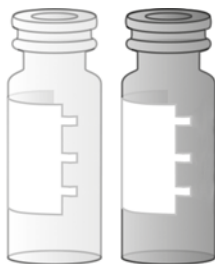
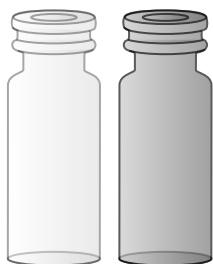
And we recommend the use of a silicone/aluminium septum, if impurities are dissolved into the solvent through the PTFE because the PTFE is too porous. This occurs especially if the sample is held in the Autosampler over an extended period of time.

	septum material	thickenss	septum colour	cap colour	product no.
ms-Pure silicone	silicone/PTFE 	1 mm	clear/clear	clear green red	G003-ACC-SKFK10 G003-ACG-SKFK10 G003-ACR-SKFK10
ms-Pure silicone <i>pre-slit</i>	silicone/PTFE 	1 mm	clear/clear	clear green red	G003-ACC-Hi-SKFK10 G003-ACG-Hi-SKFK10 G003-ACR-Hi-SKFK10
ms-Pure silicone <i>multiple injections</i>	PTFE/silicone/PTFE 	1 mm	clear/clear/clear	clear green red	G003-ACC-FKSKFK10 G003-ACG-FKSKFK10 G003-ACR-FKSKFK10
rubber <i>tested for extractable substances in cooperation with Interlabor Belp (CH)</i>	rubber/PTFE 	1 mm	red/clear	clear blue green red yellow	G003-AC-Ru/Te G003-ACB-Ru/Te G003-ACG-Ru/Te G003-ACR-Ru/Te G003-ACY-Ru/Te
pigmented silicone	silicone/PTFE 	1 mm	white/red	clear green red	G003-ACC-SWFR10 G003-ACG-SWFR10 G003-ACR-SWFR10
pigmented silicone <i>multiple injections</i>	PTFE/silicone/PTFE 	1 mm	red/white/red	clear green red	G003-ACC-FRSWFR10 G003-ACG-FRSWFR10 G003-ACR-FRSWFR10
aluminium with PTFE-O-sealing-ring <i>for trace analysis and TPF-crimping systems</i>	aluminium 	0.1 mm	clear	clear	G003-ACC-FOAL01
pigmented silicone/aluminium foil <i>for high temperature analysis</i>	silicone / aluminium 	1.3 mm	white/silver	clear	G003-ACC-SWAL13
flanged skirting <i>for high temperature analysis</i>	PTFE 	0.3 mm	clear	clear	G003-ACZ-FW03

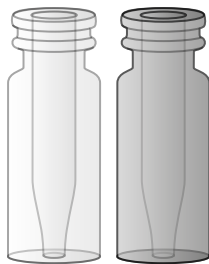
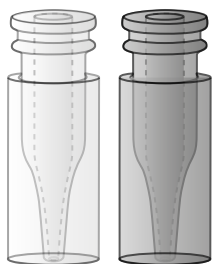


Snap/crimp vials & caps and markers

Snap/crimp vials & caps



<p>G002-SC-H G002-SC-D</p> <p>1.5 ml snap/crimp Vial, clear or amber borosilicate glass, size: 12 x 32 mm</p>	<p>BL02-SC-H BL02-SC-D</p> <p>1.5 ml snap/crimp Vial with white write-on patch and graduation, clear or amber borosilicate glass, size: 12 x 32 mm</p>	<p>8002-SC-H/V15μ 8002-SC-D/V15μ</p> <p>Vμ-Vial, 1.2 ml snap/crimp Vial, clear or amber borosilicate glass, 15 μl residual volume, size: 12 x 32 mm</p>
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<p>8002-SC-H/iV2μ 8002-SC-D/iV2μ</p> <p>Snap/crimp iV2μ-Vial, clear or amber borosilicate glass, with pointed narrow 250 μl insert, insert directly closed with cap, 8 μl residual volume, size: 12 x 32 mm</p>	<p>8002-SC-H/i3μ 8002-SC-D/i3μ</p> <p>Snap/crimp μ-Vial, clear or amber borosilicate glass, with fused 350 μl insert, 10 μl residual volume, size: 12 x 32 mm</p>	<p>G002-SC-PP/i17μ</p> <p>700 μl snap/crimp Vial, polypropylen, may be used for 100 μl - 700 μl, size: 12 x 32 mm</p>
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Glass:

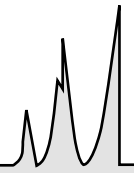
H	clear glass
D	amber glass

Metallic marker for the labelling of glass vials

A test showed, that the Edding 780 Paint Marker is best suited for labelling vials.



blue 80PM-E780B	red 80PM-E780R	silver 80PM-E780A	white 80PM-E780W
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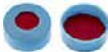
Snap caps

ms-Pure non-pigmented silicone/PTFE septum

The ms-Pure silicone/PTFE septum is produced from natural non-pigmented silicone/PTFE. Tests show that it is 60 % purer than „standard“ silicone/PTFE septa from other producers. With an increasing sensitivity of analytical instruments, there is an increasing demand for extra pure septum material to prevent a contamination of the sample with extractable substances from the septum.



For the convenient handling in the laboratory, autosampler vial caps from the infochroma production are supplied in a clear screw-top pet box.

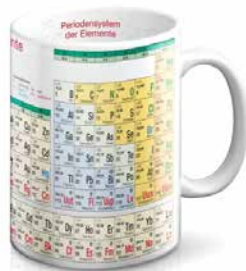
	septum material	thickness	septum colour	cap colour	product no.
ms-Pure silicone	silicone/PTFE 	1 mm	clear/clear	clear blue red	G003-SCC-SKFK10 G003-SCB-SKFK10 G003-SCR-SKFK10
ms-Pure silicone <i>pre-slit</i>	silicone/PTFE 	1 mm	clear/clear	clear blue red	G003-SCC-Hi-SKFK10 G003-SCB-Hi-SKFK10 G003-SCR-Hi-SKFK10
ms-Pure silicone <i>multiple injections</i>	PTFE/silicone/PTFE 	1 mm	clear/clear/clear	clear blue red	G003-SCC-FKSKFK10 G003-SCB-FKSKFK10 G003-SCR-FKSKFK10
pigmented silicone	silicone/PTFE 	1 mm	white/red	clear blue red	G003-SCC-SWFR10 G003-SCB-SWFR10 G003-SCR-SWFR10
pigmented silicone <i>multiple injections</i>	PTFE/silicone/PTFE 	1 mm	red/white/red	clear blue red	G003-SCC-FRSWFR10 G003-SCB-FRSWFR10 G003-SCR-FRSWFR10

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Coffee mug «PSE» (Periodic table of the elements)

(Product number: 57-0057)

460 ml coffee mug
porcelain
microwave and
dishwasher safe



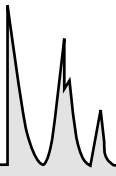
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Petri dish

(Product number: Soda-lime glass, 100 x 20 mm, 50-1473)

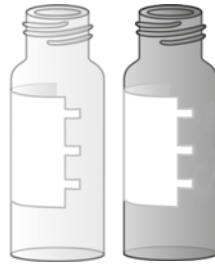
various diameters and
glass qualities available
also available in stainless
steel





Agilent compatible screw vials & caps

Agilent compatible (HP) screw vials & caps



G004-HP-H
G004-HP-D

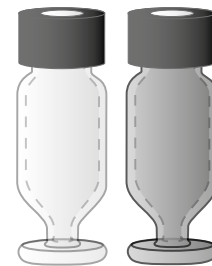
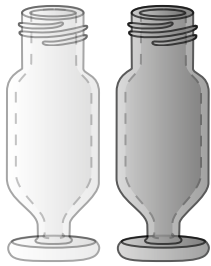
1.5 ml Agilent compatible screw vial, clear or amber borosilicate glass, size: 12 x 32 mm

BL04-HP-H
BL04-HP-D

1.5 ml Agilent compatible screw vial, with white write-on patch and graduation, clear or amber glass, size: 12 x 32 mm

8004-HP-H/VKF11 μ

1.1 ml Agilent compatible High Recovery screw vial, clear borosilicate glass; dimension: 12 x 32 mm



8004-HP-H/V15 μ
8004-HP-D/V15 μ

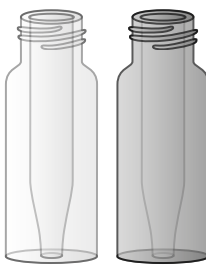
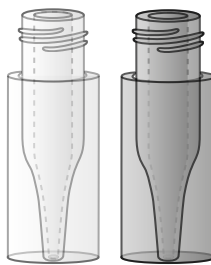
1.2 ml Agilent compatible screw V μ -Vial, clear or amber borosilicate glass; 15 μ l residual volume, size: 12 x 32 mm

8004-HP-D/V15 μ /BLACK

for light sensitive samples
1.2 ml Agilent compatible screw V μ -Vial, amber borosilicate glass with black opaque coating, size: 12 x 32 mm

GHP4*-SKFK10-H/V15 μ
GHP4*-SKFK10-D/V15 μ

Screw vial kit: 1.2 ml Agilent compatible screw V μ -Vial, clear or amber borosilicate glass, size 12 x 32 mm, 9 mm screw cap*, 9 mm non-pigmented ms-Pure silicone/PTFE septum



8004-HP-H/iV2 μ
8004-HP-D/iV2 μ

Agilent compatible screw iV2 μ -Vial, clear or amber borosilicate glass, with narrow pointed 250 μ l insert, insert directly closed with cap, 8 μ l residual volume, size: 12 x 32 mm

8004-HP-H/i3 μ
8004-HP-D/i3 μ

Agilent compatible screw μ -Vial with fused 350 μ l insert, clear or amber borosilicate glass; 10 μ l residual volume, size: 12 x 32 mm

G004-HP-PP/i17 μ

700 μ l Agilent compatible screw vial, polypropylene, may be used for 100 μ l - 700 μ l, size: 12 x 32 mm

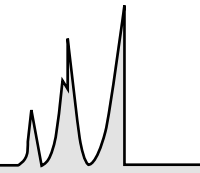
replace «*» with the **cap colour** of your choice:

B = blue	G = green	R = red	S = black	W = white	Y = yellow

Glass:

H	clear glass
D	amber glass

Agilent compatible screw vials & caps



Agilent compatible 9 mm screw cap

ms-Pure non-pigmented silicone/PTFE septum

The ms-Pure silicone/PTFE septum is produced from natural non-pigmented silicone/PTFE. Tests show that it is 60 % purer than „standard“ silicone/PTFE septa from other producers. With an increasing sensitivity of analytical instruments, there is an increasing demand for extra pure septum material to prevent a contamination of the sample with extractable substances from the septum.

For the convenient handling in the laboratory, autosampler vial caps from the infochroma production are supplied in a clear screw-top pet box.



	cap collar	septum material	thickness	septum colour	product no.
ms-Pure silicone	ripped	silicone/PTFE	1 mm	clear/clear	G004-HP-C*-SKFK10
	smooth	silicone/PTFE	1 mm	clear/clear	G004-HP-C*-SKFK10
ms-Pure silicone <i>pre-slit</i>	smooth	silicone/PTFE	1 mm	clear/clear	G004-HP-C*-Hi-SKFK10
ms-Pure silicone <i>multiple injections</i>	ripped	PTFE/silicone/PTFE	1 mm	clear/clear/clear	G004-HP-C*-FKSKFK10
	smooth	PTFE/silicone/PTFE	1 mm	clear/clear/clear	G004-HP-C*-FKSKFK10
pigmented silicone	ripped	silicone/PTFE	1 mm	white/red	G004-HP-C*-SWFR10
	smooth	silicone/PTFE	1 mm	white/red	G004-HP-C*-SWFR10
pigmented silicone <i>bonded</i>	ripped	silicone/PTFE	1 mm	beige/white	8B04B-HP-SWFW10
pigmented silicone <i>bonded, pre-slit</i>	ripped	silicone/PTFE	1 mm	beige/white	8B04B-HP-Hi-SWFW10



8194*-12/032-SKFK10-H 8194*-12/032-SKFK10-D Screw vial kit: 1.5 ml Agilent compatible screw vial, with white write-on patch and graduation, clear or amber borosilicate glass, 9 mm screw cap* with non-pigmented ms-Pure silicone/PTFE septum	G194*-12/032-SKFK10-H G194*-12/032-SKFK10-D Screw vial kit: 1.5 ml Agilent compatible screw vial, clear or amber borosilicate glass, 9 mm screw cap* with non-pigmented ms-Pure silicone/PTFE septum	G194*-12/032-SKFK10-H/V15μ G194*-12/032-SKFK10-D/V15μ Screw vial kit: 1.2 ml Agilent compatible screw Vμ-Vial, clear or amber borosilicate glass, 9 mm screw cap* with non-pigmented ms-Pure silicone/PTFE septum
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replace «*» with the **cap colour** of your choice:

B = blue	G = green	R = red	S = black	W = white	Y = yellow

Glass:

H	clear glass
D	amber glass

Black V μ -Vial

V μ -Vial with black opaque coating for light sensitive samples; the coating prevents the light from penetrating the glass.

- ☛ small residual volume
- ☛ no support required
- ☛ standard size: 12 x 32 mm



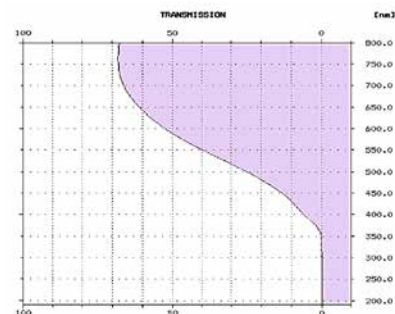
8002-CV-D/V15 μ /BLACK

1.2 ml crimp V μ -Vial with black opaque coating, residual volume 15 μ l, size: 12 x 32 mm

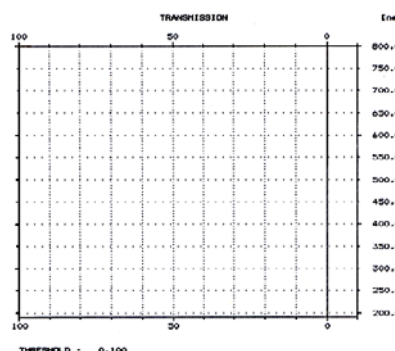
8004-HP-D/V15 μ /BLACK

1.2 ml Agilent compatible screw V μ -Vial with black opaque coating, residual volume 15 μ l, size: 12 x 32 mm

amber vial transmission



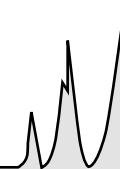
black vial transmission



Silanised autosampler vials

Silanised 250 μ l Agilent compatible screw iV2 μ -Vial, clear or amber borosilicate glass, with pointed narrow 250 μ l insert, insert directly closed with cap, 8 μ l residual volume, size: 12 x 32 mm		Silanised 1.2 ml V μ -Vial with 15 μ l residual volume, clear or amber borosilicate glass, size: 12 x 32 mm		Silanised 1.5 ml vial, clear or amber borosilicate glass, size: 12 x 32 mm	
	crimp-top 8002-CV-H/iV2 μ /SZ 8002-CV-D/iV2 μ /SZ		crimp-top 8002-CV-H/V15 μ /SZ 8002-CV-D/V15 μ /SZ		crimp-top G002-CV-H/SZ G002-CV-D/SZ
	snap/crimp-top 8002-SC-H/iV2 μ /SZ 8002-SC-D/iV2 μ /SZ		snap/crimp-top 8002-SC-H/V15 μ /SZ 8002-SC-D/V15 μ /SZ		snap/crimp-top G002-SC-H/SZ G002-SC-D/SZ
	Agilent compatible screw-top 8004-HP-H/iV2 μ /SZ 8004-HP-D/iV2 μ /SZ		Agilent compatible screw-top 8004-HP-H/V15 μ /SZ 8004-HP-D/V15 μ /SZ		Agilent compatible screw-top G004-HP-H/SZ G004-HP-D/SZ

Waters screw vials & caps



4 ml Waters vials & caps



G004-W-H G004-W-D 4 ml screw vial, clear or amber borosilicate glass, size: 15 x 45 mm	G072-14/045-H/VMμ G072-14/045-D/VMμ 3.5 ml screw-top VMax-Vial, clear or amber borosilicate glass, size: 14 x 45 mm, screw thread 13-425	G052-14/045-H 3.5 ml round bottom screw vial, clear borosilicate glass, size: 14 x 45 mm	G0W4*-Si/Te-H G0W4*-Si/Te-D 4 ml screw vial kit: 4 ml screw vial, clear or amber borosilicate glass 13 mm screw cap* with white silicone/ red PTFE septum
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Waters screw cap with septum

	septum material	thickness	septum colour	product no.
ms-Pure silicone	silicone/PTFE	1.5 mm	clear/clear	G004-W-C*-SKFK10
clear silicone	silicone/PTFE	1.6 mm	clear/white	G074*-SKFW16/13
pigmented silicone	silicone/PTFE	1 mm	white/red	G004-W-C*-Si/Te
pigmented silicone <i>pre-slit</i>	silicone/PTFE	1 mm	white/red	G004-W-C*-Hi-Si/Te

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

					
B = blue	G = green	R = red	S = black	W = white	Y = yellow

Glass:

H	clear glass
D	amber glass

www.chemoline.ch

Weather house Taunus

(Reference: 55-1405)

Hygrometer:
depending on humidity one
figure or the other swings out
of the house



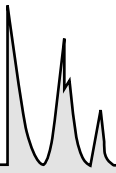
www.chemoline.ch

T-shirt «toxy»

(Reference size L: 56-1317)

orange t-shirt
with black print
100% cotton





Blue or green Storage Vials / Blue Boston Round Bottles

Storage Vials made from blue or green borosilicate glass, screw thread 13-425

Storage Vials, blue (B) or green (G) borosilicate glass, complete with closed-top PTFE lined screw cap

volume	dimensions	blue glass	green glass
2 ml	14 x 26 mm	G075*-14/026-B	G075*-14/026-G
4 ml	14 x 45 mm	G075*-14/045-B	G075*-14/045-G
7.5 ml	17 x 60 mm	G075*-17/060-B	G075*-17/060-G



Boston Round bottles from cobalt blue glass

Boston Round bottles from cobalt blue glass for the storage of light sensitive samples or essential oil. Complete with PTFE lined closed-top polypropylene screw cap.

volume	dimensions	thread	product no.
30 ml	33 x 79 mm	20-400	8075*-BR-30-B
60 ml	39 x 94 mm	20-410	8075*-BR-60-B
120 ml	49 x 113 mm	24-410	8075*-BR-120-B



Boston Round bottle from cobalt blue PET

Boston Round bottle from cobalt blue PET for the storage of light sensitive samples. Complete with PTFE lined closed-top Thermoset screw cap.

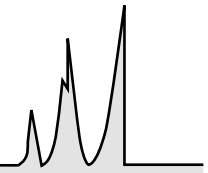
volume	dimensions	thread	product no.
30 ml	33 x 79 mm	20-410	8080-BR-30-B/PET
60 ml	39 x 94 mm	20-410	8080-BR-60-B/PET
120 ml	49 x 113 mm	24-410	8080-BR-120-B/PET
250 ml	57 x 135mm	24-410	8080-BR-250-B/PET
360 ml	62 x 153 mm	28-410	8080-BR-360-B/PET
500 ml	70 x 168 mm	28-410	8080-BR-500-B/PET



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

B = blue	G = green	R = red	S = black	W = white	Y = yellow

Graduated Storage Vials & Polypropylene Storage Boxes



Graduated 8 ml Storage Vial

Vials ø 22 mm, screw thread GL18, graduated 2, 4 & 6 ml

Available with black phenolic screw cap with sealing cone or yellow, PTFE lined phenolic screw cap.

In addition to the silkscreen or alternatively, these vials may also be barcoded.

Our storage vials are packed in high quality cardboard boxes with a grit divider for 100 vials.



G060S-08-H/G

8 ml Storage Vial, graduated at 2, 4 & 6 ml, with black phenolic screw cap with a polyethylene sealing cone, size: 22 x 48 mm screw thread GL18



G065Y-08-H/G

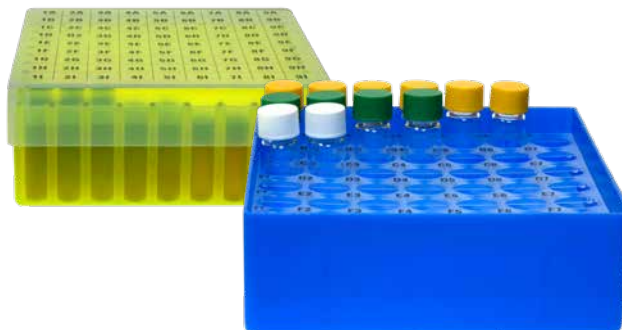
8 ml Storage Vial, graduated at 2, 4 & 6 ml, with yellow, PTFE lined phenolic screw cap, size: 22 x 48 mm screw thread GL18

Polypropylene storage boxes

Polypropylene storage boxes with or without alpha-numeric coding.

- cold/and heat resistant -100 to +121°C
- Base available in six colours. Lid transparent.
- Base and lid available in solid black (BB) for light sensitive samples.

Storage box 130 x 130 mm, with alpha-numeric coding

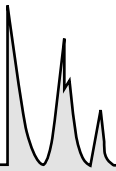


* Storage box colours

- NB = neon blue
- NG = neon green
- NO = neon orange
- NR = neon red
- NY = neon yellow
- BB = black/black

8235*-13045C-12/81	8235*-13050C-16/49
for vials with ø 12 mm and a maximum height of 45 mm, room for 81 vials	for vials with ø 16.5 mm and a maximum height of 50 mm, room for 49 vials

Other storage boxes available on request. Please inquire: gtg@infochroma.ch



Wash vials with clip-in diffusion insert



Autosamplers extracting the sample from the vial with a syringe, need to have the syringe rinsed after each injection to keep sample carryover at a minimum. With increasing sensitivity of the analytical instruments, the rinsing process becomes increasingly important, especially when different or viscous samples are analysed. The vial which holds the rinsing solvent is the so called wash vial.

depth in both the standard vial and the wash vial. Therefore the minimum filling level is marked on the wash vial. On the side of the waste solvent this is in reverse. The syringe should not dip into the waste solvent and the maximum filling level is marked.



Wash vials are in fact normal 4 ml screw vials which are filled with a rinsing solvent. Instead of a septum, the wash vial's screw cap has a funnel, the diffusion insert. The diffusion insert serves three purposes: it closes the vial, it reduces evaporation of the solvent and guides the needle. Common diffusion inserts are loose in the cap and when the vial is opened for filling, the diffusion insert ever so often jumps from the cap, disappearing into a dark corner of the laboratory where it is hard to be found. Our wash vials have a diffusion insert that clips into the screw cap staying in place when the vial is opened to be filled.

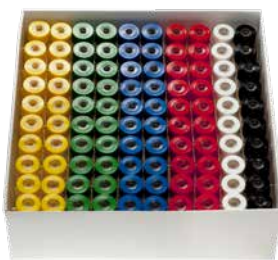


2 ml of one wash vial filling can be used, which means if the syringe is rinsed 3 times using 10 µl for each rinse, there is enough rinsing solvent for 65 injections. Even though the wash vial contains clean solvent only, the repeated insertion of the syringe will contaminate the vial and the diffusion insert. Therefore we recommend to exchange the wash vial regularly, latest after 100 injections. The same applies for the waste vial, which however can be used longer. Our wash vials are supplied in practical sets of 100 pcs, the screw caps of the solvent vials are yellow, red, green and blue, those for the waste vial are black and white.



A standard vial is 32 mm in height while the wash vial is 45 mm, therefore a good part of the solvent in the wash vial cannot be used; for naturally the syringe descends to the same

4 ml Wash vial kit



Our wash vials are supplied in a practical kit of 100 pcs, the solvent vials have screw caps in yellow, red, green and blue; the waste vials have screw caps in black and white.

10 ml Wash vial kit for CTC/PAL



GWMB10X-GTG-H

10 ml Wash vial kit

4 x 20 Solvent vials with screw caps in the colours blue, yellow, green and red

2 x 10 Waste vials with screw caps in the colours black and white

screw caps are complete with clip-in diffusion insert

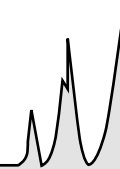
GWMB4X-GTG-H

4 ml Wash vial kit

4 x 20 Solvent vials with screw caps in the colours blue, yellow, green and red

2 x 10 Waste vials with screw caps in the colours black and white

screw caps are complete with clip-in diffusion insert



Our new premises as of 01.06.2016



Chräbelstrasse 4, 6410 Goldau



Office

incoming goods department



Warehouse lower level



Warehouse ground floor

www.chemoline.ch

Measuring cylinder DIN B

(Product number: 250 ml: 50-1465)

clear glass
tall cylinder
with beaker & hexagonal foot



www.chemoline.ch

Spatula made of PA plastic

(Product number: 50-1943)

Spoon spatula made of
glass fibre enforced polyamide
length: 210 mm



www.chemoline.ch

T-Shirt «BiEr»

(Product number: 56-2000)

Golden imprint on
American cotton,
heavyweight Belcoro cotton yarn
weight: 185 g/m²



www.chemoline.ch

The Chemist's beer glass «BiEr»

(Product number: 57-0074)

for the 5th element of the English:
"fermented barley juice"
set of glasses
dishwasher safe



Crimpronic - electronic crimper

for the effortless and reproducible crimping of crimp vials

The Crimpronic is an electronic crimper, in which the vial is placed with cap in place. The crimp head descends onto the vial and an electronic cylinder crimps the cap with a predefined pressure. As the Crimpronic crimps with a predefined pressure rather than against a mechanical stop, which is the case with manual crimping tools, the Crimpronic even compensates the tolerance of the glass and the septum thickness. This guarantees that one closure is identical to the next.

The Crimpronic is not faster than a manual crimper but produces much more reproducible and uniform results particularly when working with difficult closures like lyophilisation stoppers or magnetic metal caps.

Crimp heads are available for all standard cap sizes and are exchangeable by hand.

De-crimp heads for the opening of vials are also available.

We recommend the use of the Crimpronic:

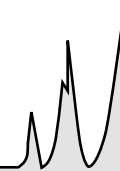
- ☛ for reproducible crimping
- ☛ when the quality of the crimping is critical
- ☛ for closures that are difficult to crimp such as lyophilisation stoppers or magnetic steel caps
- ☛ if tenosynovitis has been an issue







Also available with rotary disc

	GWCR-4C11 Crimpronic complete with 11 mm crimp head & positioning module for vials with 12 mm diameter		GWCR-4C20 Crimpronic complete with 20 mm crimp head & positioning module for vials with 23 mm diameter
Accessory, may be ordered separately:			
	GACR-4C11 Crimpronic Crimp head 11 mm		GACR-4C20 Crimpronic Crimp head 20 mm
<i>no image</i>	GACR-4D11 Crimpronic De-capper 11 mm		GACR-4D20 Crimpronic De-Capper 20 mm
	GACR-4P11 Crimpronic Positioning module for vial ø 12 mm		GACR-4P23 Crimpronic Positioning module for vial ø 23 mm

Manual crimping & de-capping tools & vial racks



Manual crimping & de-capping tools

	8 mm Crimper G002(8)-CZ	11 mm Crimper G002-CZ	13 mm Crimper G002(13)-CZ	20 mm Crimper G006-CZ
	8 mm Crimper 8002(8)-CZ	11 mm Crimper 8002-CZ	13 mm Crimper 8002(13)-CZ	20 mm Crimper 8006-CZ
	8 mm De-capper G002(8)-DCZ	11 mm De-capper G002-DCZ	13 mm De-capper G002(13)-DCZ	20 mm De-capper G006-DCZ
	8 mm De-capper 8002(8)-DCZ	11 mm De-capper 8002-DCZ	13 mm De-capper 8002(13)-DCZ	20 mm De-capper 8006-DCZ

Manual De-capper

	8 mm De-capper 8002(8)-OZ	11 mm De-capper 8002-OZ	13 mm De-capper 8002(13)-OZ	20 mm De-capper 8006-OZ
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Stainless steel crimper for small series suitable for the clean room

Manual crimper, height adjustable, suitable for the clean room, may be sterilised and autoclaved

	8 mm Crimper 8002(8)-CZRR	11 mm Crimper 8002-CZRR	13 mm Crimper 8002(13)-CZRR	20 mm Crimper 8006-CZRR
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Hard-polyethylene vial racks

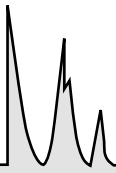
When placing an order for vial racks, please quote the vial diameter you are using.

The following maximum number of positions is possible with a vial diameter of:



vial ø	PEWP conforms to well plate	PE32 248 x 114 x 30 mm	PE10 165 x 60 x 30 mm
up to 16 mm	6 x 4 Positions	max. 13 x 6 Positions	max. 8 x 3 Positions
up to 22 mm	-	max. 10 x 4 Positions	max. 6 x 2 Positions
up to 34 mm	-	max. 6 x 3 Positions	max. 4 x 1 Positions

vial ø	rack positions	rack size	product no.
10 mm	24 Positions	PEWP: 184 x 84 x 30 mm	8230-PEWP-24/10
12 mm	10 Positions	PE10: 165 x 60 x 30 mm	8230-PE10-10/12
12 mm	32 Positions	PE32: 248 x 114 x 30 mm	8230-PE32-32/12
15 mm	32 Positions	PE32: 248 x 114 x 30 mm	8230-PE32-32/15
19 mm	32 Positions	PE32: 248 x 114 x 30 mm	8230-PE32-32/19
23 mm	18 Positions	PE32: 248 x 114 x 30 mm	8230-PE32-18/23
27 mm	18 Positions	PE32: 248 x 114 x 30 mm	8230-PE32-18/27



Headspace crimp vials & caps



G006-10-H/FL G006-10-D/FL 10 ml Headspace crimp vial, flat base, clear or amber borosilicate glass, size: 23 x 45 mm	G006-10-H/Ru 10 ml Headspace crimp vial, rounded base, clear borosilicate glass, size: 23 x 45 mm	G006-20-H/FL G006-20-D/FL 20 ml Headspace crimp vial, flat base, clear or amber borosilicate glass, size: 23 x 75 mm	G006-20-H/Ru G006-20-D/Ru 20 ml Headspace crimp vial, rounded base, clear or amber borosilicate glass, size: 23 x 75 mm
Instrument compatibility: Agilent Technologies, CTC/Leap, Dani, Fisons HS500, Shimadzu AOC5000		Instrument compatibility: Agilent Technologies, CTC/Leap, Dani, Dani Purge & Trap, Fisons HS850, PerkinElmer (with rounded bottom only), Shimadzu AOC5000	

Magnetic cap for CTC/Leap



septum type	septum material	thickness	septum colour	cap colour	product no.
ms-Pure silicone septum	silicone/PTFE	3 mm	clear/clear	clear blue green red	G007-MACC-SKFK30 G007-MACB-SKFK30 G007-MACG-SKFK30 G007-MACR-SKFK30

Aluminium cap

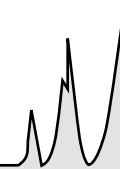


septum type	septum material	thickness	septum colour	cap colour	product no.
ms-Pure silicone septum	silicone/PTFE	3 mm	clear/clear	clear	G007-ACC-SKFK30

Glass:

H	clear glass
D	amber glass

Headspace vials & caps



Headspace screw vial with magnetic screw cap

Headspace chromatography requires the vial to be tightly sealed and the closure to withstand pressure. This requires some effort and is tiring when closing larger series. Our screw-top headspace vial only requires a torque < 1 Nm for a pressure tight seal while common solutions require a torque > 8 Nm.

Our screw caps not only close smoothly, they also have a smaller diameter than aluminium crimp caps for Headspace. Because of the smaller diameter the septum, which is the cost defining factor, is therefore less expensive.



Design Registration No.: DE 20 2007 008 595.8;
Priority Date: 15. June 2007

GHS6 *		**R		S * F ***		*	
cap colour		vial volume		septum		borosilicate glass	
	B = blue	10 ml	= 10R		3 mm grey butyl rubber / grey PTFE septum, max. temp 125 °C Vial kit code = BZFZ31 Product code septum = GHS8-BZ30FZ01/14		H = clear glass
	G = green	23 x 43 mm			3 mm blue silicone / grey PTFE septum, max. temp 150 °C Vial kit code = SBFZ31 Product code septum = GHS8-SB30FZ01/14		D = amber glass
	R = red	20 ml	= 20R		3 mm clear silicone / white PTFE septum, max. temp 150 °C Vial kit code = SKFW32 Product code septum = GHS8-SK30FW02/14		
	S = black	23 x 73 mm			1.5 mm white silicone / red PTFE septum, max. temp 120 °C Vial kit code = SWFR16 Product code septum = GHS8-SW15FR01/14		
	W = white				3 mm white silicone / red PTFE septum, max. temp 150 °C Vial kit code = SWFR31 Product code septum = GHS8-SW30FR01/14		
	Y = yellow						

	B = blue
	G = green
	R = red
	S = black
	W = white
	Y = yellow

10 ml	= 10R
23 x 43 mm	
20 ml	= 20R
23 x 73 mm	

	3 mm grey butyl rubber / grey PTFE septum, max. temp 125 °C Vial kit code = BZFZ31 Product code septum = GHS8-BZ30FZ01/14
	3 mm blue silicone / grey PTFE septum, max. temp 150 °C Vial kit code = SBFZ31 Product code septum = GHS8-SB30FZ01/14
	3 mm clear silicone / white PTFE septum, max. temp 150 °C Vial kit code = SKFW32 Product code septum = GHS8-SK30FW02/14
	1.5 mm white silicone / red PTFE septum, max. temp 120 °C Vial kit code = SWFR16 Product code septum = GHS8-SW15FR01/14
	3 mm white silicone / red PTFE septum, max. temp 150 °C Vial kit code = SWFR31 Product code septum = GHS8-SW30FR01/14

H = clear glass
D = amber glass



magnetic screw caps, may be used up to 150°C



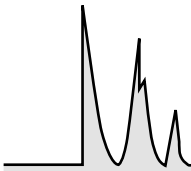
also available graduated GHS6*-20R-S*F***-H/G



10 ml 23 x 43 mm
GHS6*-10R-BZFZ31-H GHS6*-10R-BZFZ31-D
GHS6*-10R-SBFZ31-H GHS6*-10R-SBFZ31-D
GHS6*-10R-SKFW32-H GHS6*-10R-SKFW32-D
GHS6*-10R-SWFR31-H GHS6*-10R-SWFR31-D
GHS6*-10R-SWFR16-H GHS6*-10R-SWFR16-D







20 ml 23 x 73 mm
GHS6*-20R-BZFZ31-H GHS6*-20R-BZFZ31-D
GHS6*-20R-SBFZ31-H GHS6*-20R-SBFZ31-D
GHS6*-20R-SKFW32-H GHS6*-20R-SKFW32-D
GHS6*-20R-SWFR31-H GHS6*-20R-SWFR31-D
GHS6*-20R-SWFR16-H GHS6*-20R-SWFR16-D




Septum Vials from 1.0 - 60 ml complete with open-top screw cap with silicone/PTFE septum

Our Septum Vial programme comprises 6 vial diameters and over 30 different dimensions within the volumes of 1.0 - 60 ml. The vials come complete with open-top screw cap with silicone/PTFE septum; the caps are available in six different colours.

Septum Vials are supplied in high quality card board boxes with a grit divider for 100 vials. These boxes are also ideally suited for the storing or transportation of the vials.

				
	vial ø 12 mm screw thread 9-425	vial ø 14 mm screw thread 13-425	vial ø 17 mm screw thread 15-425	vial ø 19 mm screw thread 15-425
Kit	height: 24 mm height: 32 mm V μ -vial height: 32 mm assorted G194X-12Kit02-SKFK10-H G194X-12Kit02-SKFK10-D	height: 26 mm height: 30 mm height: 45 mm height: 50 mm assorted G074X-14Kit05-SKFW16-H G074X-14Kit05-SKFW16-D	height: 27 mm height: 35 mm height: 42 mm height: 60 mm height: 72 mm, assorted G074X-17Kit10-SKFW16-H G074X-17Kit10-SKFW16-D	height: 37 mm height: 50 mm height: 65 mm height: 87 mm assorted G074X-19Kit15-SKFW16-H G074X-19Kit15-SKFW16-D
1.0 ml	height: 24 mm G194*-12/024-SKFK10-H G194*-12/024-SKFK10-D	height: 19 mm G074*-14/019-SKFW16-H G074*-14/019-SKFW16-D		
1.2 ml	height: 32 mm G194*-12/032-SKFK10-H/V15 μ G194*-12/032-SKFK10-D/V15 μ			
1.5 ml	height: 32 mm G194*-12/032-SKFK10-H G194*-12/032-SKFK10-D	height: 22 mm G074*-14/022-SKFW16-H G074*-14/022-SKFW16-D		
2 ml		height: 26 mm G074*-14/026-SKFW16-H G074*-14/026-SKFW16-D		
2.5 ml		height: 30 mm G074*-14/030-SKFW16-H G074*-14/030-SKFW16-D	height: 27 mm G074*-17/027-SKFW16-H G074*-17/027-SKFW16-D	
3.75 ml		height: 45 mm G074*-14/045-SKFW16-H G074*-14/045-SKFW16-D	height: 35 mm G074*-17/035-SKFW16-H G074*-17/035-SKFW16-D	
5 ml		height: 50 mm G074*-14/050-SKFW16-H G074*-14/050-SKFW16-D	height: 42 mm G074*-17/042-SKFW16-H G074*-17/042-SKFW16-D	height: 37 mm G074*-19/037-SKFW16-H G074*-19/037-SKFW16-D

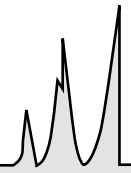
replace «*» with the **cap colour** of your choice:

					
B = blue	G = green	R = red	S = black	W = white	Y = yellow

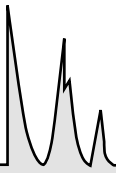
Glass:

H	clear glass
D	amber glass

Septum Vials



	vial ø 17 mm screw thread 15-425	vial ø 19 mm screw thread 15-425	vial ø 23 mm screw thread 20-400	vial ø 27 mm screw thread 24-400
Kit	height: 27 mm height: 35 mm height: 42 mm height: 60 mm height: 72 mm, assorted G074X-17Kit10-SKFW16-H G074X-17Kit10-SKFW16-D	height: 37 mm height: 50 mm height: 65 mm height: 87 mm assorted G074X-19Kit15-SKFW16-H G074X-19Kit15-SKFW16-D	height: 37 mm height: 45 mm height: 60 mm height: 75 mm height: 85 mm, assorted G074X-23Kit25-SKFW16-H G074X-23Kit25-SKFW16-D	height: 37 mm height: 47 mm height: 57 mm height: 68 mm assorted G074X-27Kit25-SKFW34-H G074X-27Kit25-SKFW34-D height: 78 mm, height: 95 mm height: 118 mm, height: 140 mm, assortiert G074X-27Kit60-SKFW34-H G074X-27Kit60-SKFW34-D
7.5 ml	height: 60 mm G074*-17/060-SKFW16-H G074*-17/060-SKFW16-D	height: 50 mm G074*-19/050-SKFW16-H G074*-19/050-SKFW16-D	height: 37 mm G074*-23/037-SKFW16-H G074*-23/037-SKFW16-D	
10 ml	height: 72 mm G074*-17/072-SKFW16-H G074*-17/072-SKFW16-D	height: 65 mm G074*-19/065-SKFW16-H G074*-19/065-SKFW16-D	height: 45 mm G074*-23/045-SKFW16-H G074*-23/045-SKFW16-D	height: 37 mm G074*-27/037-SKFW34-H G074*-27/037-SKFW34-D
15 ml		height: 87 mm G074*-19/087-SKFW16-H G074*-19/087-SKFW16-D	height: 60 mm G074*-23/060-SKFW16-H G074*-23/060-SKFW16-D	height: 47 mm G074*-27/047-SKFW34-H G074*-27/047-SKFW34-D
20 ml			height: 75 mm G074*-23/075-SKFW16-H G074*-23/075-SKFW16-D	height: 57 mm G074*-27/057-SKFW34-H G074*-27/057-SKFW34-D
25 ml			height: 85 mm G074*-23/085-SKFW16-H G074*-23/085-SKFW16-D	height: 68 mm G074*-27/068-SKFW34-H G074*-27/068-SKFW34-D
30 ml				height: 78 mm G074*-27/078-SKFW34-H G074*-27/078-SKFW34-D
40 ml				height: 95 mm G074*-27/095-SKFW34-H G074*-27/095-SKFW34-D
50 ml				height: 118 mm G074*-27/118-SKFW34-H G074*-27/118-SKFW34-D
60 ml				height: 140 mm G074*-27/140-SKFW34-H G074*-27/140-SKFW34-D G054*27/140-SKFW34-H <i>vial with round base</i>



Septum Vials with open-top screw cap and silicone/PTFE septum

1.0 ml - 2 ml Septum Vials: \varnothing 12 mm, screw thread 9-425



Screw cap (screw tread 9-425) assembled with 1 mm thick ms-Pure septum, clear silicone / clear PTFE



1.0 ml 12 x 24 mm	1.2 ml V μ -Vial 12 x 32 mm	1.5 ml 12 x 32 mm
G194*-12/024-SKFK10-H G194*-12/024-SKFK10-D	G194*-12/032-SKFK10-H/V15 μ G194*-12/032-SKFK10-D/V15 μ	G194*-12/032-SKFK10-H G194*-12/032-SKFK10-D

1.0 ml - 5 ml Septum Vials: \varnothing 14 mm, screw thread 13-425



Screw cap (screw thread 13-425) assembled with 1.6 mm thick septum, clear silicone / white PTFE



1.5 ml 14 x 22 mm	2 ml 14 x 26 mm	2.5 ml 14 x 30 mm	3.75 ml 14 x 45 mm	5 ml 14 x 50 mm
G074*-14/022-SKFW16-H G074*-14/022-SKFW16-D	G074*-14/026-SKFW16-H G074*-14/026-SKFW16-D	G074*-14/030-SKFW16-H G074*-14/030-SKFW16-D	G074*-14/045-SKFW16-H G074*-14/045-SKFW16-D	G074*-14/050-SKFW16-H G074*-14/050-SKFW16-D

1.0 ml vial not shown: clear glass: G074*-14/019-SKFW16-H, amber glass: G074*-14/019-SKFW16-D (as long as stock lasts)

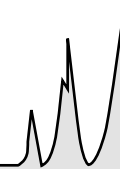
replace «*» with the **cap colour** of your choice:

B = blue	G = green	R = red	S = black	W = white	Y = yellow


Glass:

H	clear glass
D	amber glass

Septum Vials




2.5 ml - 10 ml Septum Vials: \varnothing 17 mm, screw thread 15-425

 Screw cap (screw tread 15-425) assembled with 1.6 mm thick septum, clear silicone / white PTFE



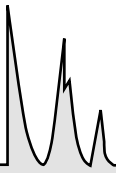
2.5 ml 17 x 27 mm	3.75 ml 17 x 35 mm	5 ml 17 x 42 mm	7.5 ml 17 x 60 mm	10 ml 17 x 72 mm
G074*-17/027-SKFW16-H G074*-17/027-SKFW16-D	G074*-17/035-SKFW16-H G074*-17/035-SKFW16-D	G074*-17/042-SKFW16-H G074*-17/042-SKFW16-D	G074*-17/060-SKFW16-H G074*-17/060-SKFW16-D	G074*-17/072-SKFW16-H G074*-17/072-SKFW16-D

5 ml - 15 ml Septum Vials: \varnothing 19 mm, screw thread 15-425

 Screw cap (screw tread 15-425) assembled with 1.6 mm thick septum, clear silicone / white PTFE

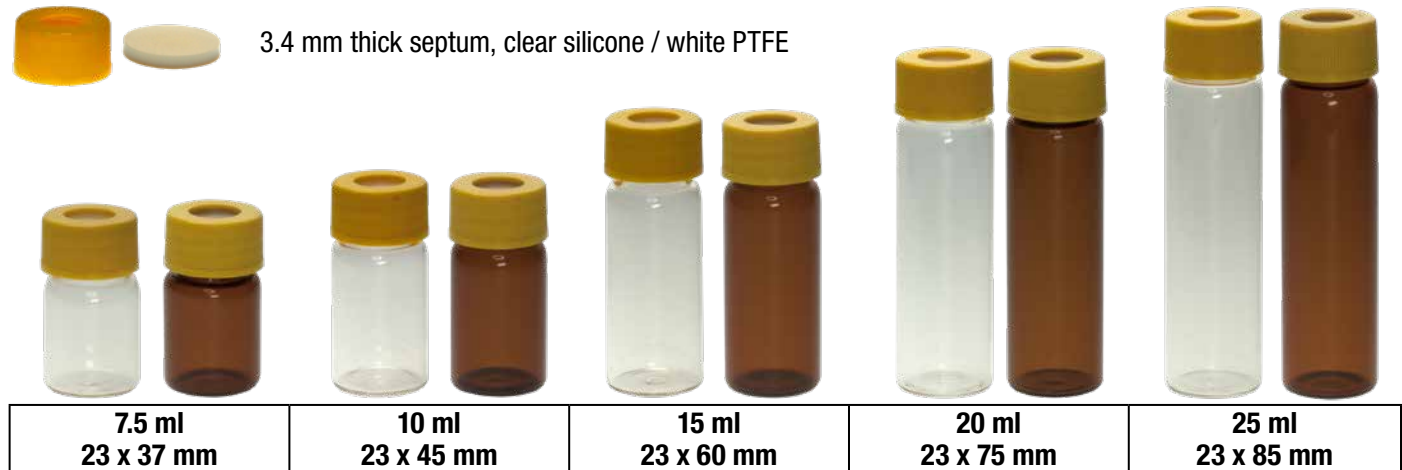
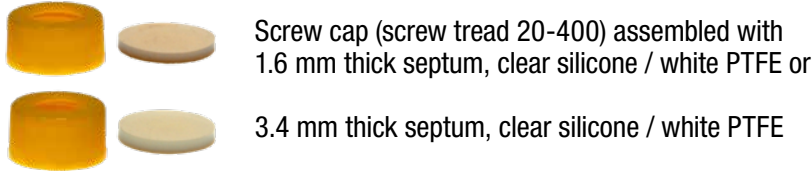


5 ml 19 x 37 mm	7.5 ml 19 x 50 mm	10 ml 19 x 65 mm	15 ml 19 x 87 mm
G074*-19/037-SKFW16-H G074*-19/037-SKFW16-D	G074*-19/050-SKFW16-H G074*-19/050-SKFW16-D	G074*-19/065-SKFW16-H G074*-19/065-SKFW16-D	G074*-19/087-SKFW16-H G074*-19/087-SKFW16-D



Septum Vials with open-top screw cap and silicone/PTFE septum

7.5 ml - 25 ml Septum Vials: \varnothing 23 mm, screw thread 20-400



with 1.6 mm thick clear silicone/white PTFE septum

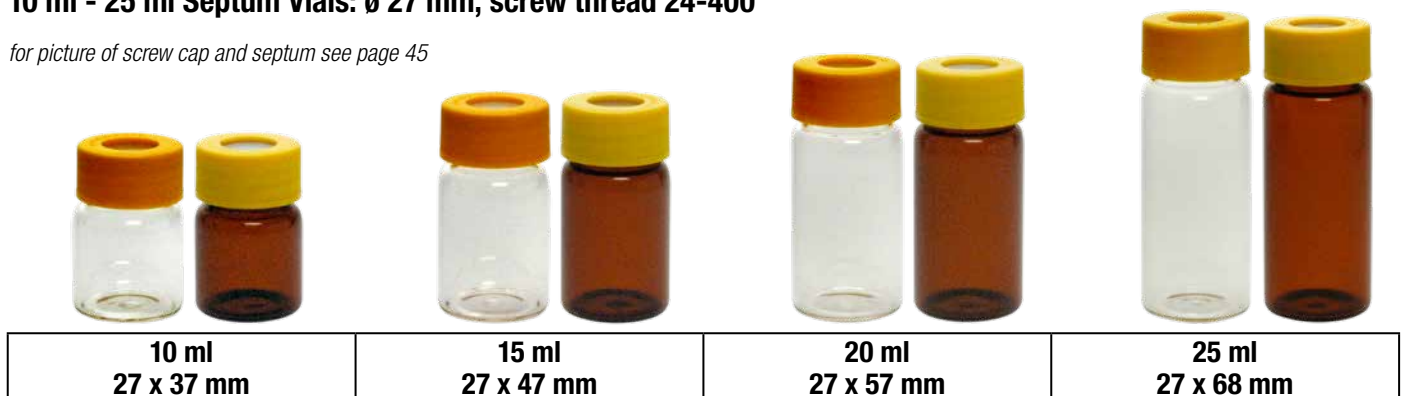
G074*-23/037-SKFW16-H	G074*-23/045-SKFW16-H	G074*-23/060-SKFW16-H	G074*-23/075-SKFW16-H	G074*-23/085-SKFW16-H
G074*-23/037-SKFW16-D	G074*-23/045-SKFW16-D	G074*-23/060-SKFW16-D	G074*-23/075-SKFW16-D	G074*-23/085-SKFW16-D

with 3.4 mm thick clear silicone/white PTFE septum

G074*-23/037-SKFW34-H	G074*-23/045-SKFW34-H	G074*-23/060-SKFW34-H	G074*-23/075-SKFW34-H	G074*-23/085-SKFW34-H
G074*-23/037-SKFW34-D	G074*-23/045-SKFW34-D	G074*-23/060-SKFW34-D	G074*-23/075-SKFW34-D	G074*-23/085-SKFW34-D

10 ml - 25 ml Septum Vials: \varnothing 27 mm, screw thread 24-400

for picture of screw cap and septum see page 45



with 1.6 mm thick clear silicone/white PTFE septum

G074*-27/037-SKFW16-H	G074*-27/047-SKFW16-H	G074*-27/057-SKFW16-H	G074*-27/068-SKFW16-H
G074*-27/037-SKFW16-D	G074*-27/047-SKFW16-D	G074*-27/057-SKFW16-D	G074*-27/068-SKFW16-D

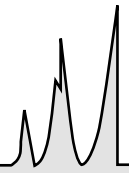
with 1.6 mm thick pre-slit septum, clear silicone / white PTFE

G074*-27/037-SKFW16/HiX-H	G074*-27/047-SKFW16/HiX-H	G074*-27/057-SKFW16/HiX-H	G074*-27/068-SKFW16/HiX-H
G074*-27/037-SKFW16/HiX-D	G074*-27/047-SKFW16/HiX-D	G074*-27/057-SKFW16/HiX-D	G074*-27/068-SKFW16/HiX-D

with 3.4 mm thick clear silicone/white PTFE septum

G074*-27/037-SKFW34-H	G074*-27/047-SKFW34-H	G074*-27/057-SKFW34-H	G074*-27/068-SKFW34-H
G074*-27/037-SKFW34-D	G074*-27/047-SKFW34-D	G074*-27/057-SKFW34-D	G074*-27/068-SKFW34-D

Septum Vials



30 ml - 60 ml Septum Vials: \varnothing 27 mm, screw thread 24-400

for picture of screw cap and septum, see below



30 ml 27 x 78 mm	40 ml 27 x 95 mm	50 ml 27 x 118 mm	60 ml 27 x 140 mm
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with 1.6 mm thick clear silicone/white PTFE septum

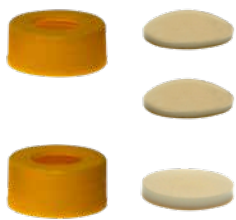
G074*-27/078-SKFW16-H G074*-27/078-SKFW16-D	G074*-27/095-SKFW16-H G074*-27/095-SKFW16-D	G074*-27/118-SKFW16-H G074*-27/118-SKFW16-D	G074*-27/140-SKFW16-H G074*-27/140-SKFW16-D
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with 1.6 mm thick pre-slit septum, clear silicone / white PTFE

G074*-27/078-SKFW16/HiX-H G074*-27/078-SKFW16/HiX-D	G074*-27/095-SKFW16/HiX-H G074*-27/095-SKFW16/HiX-D	G074*-27/118-SKFW16/HiX-H G074*-27/118-SKFW16/HiX-D	G074*-27/140-SKFW16/HiX-H G074*-27/140-SKFW16/HiX-D
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with 3.4 mm thick clear silicone/white PTFE septum

G074*-27/078-SKFW34-H G074*-27/078-SKFW34-D	G074*-27/095-SKFW34-H G074*-27/095-SKFW34-D	G074*-27/118-SKFW34-H G074*-27/118-SKFW34-D	G074*-27/140-SKFW34-H G074*-27/140-SKFW34-D
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Screw cap (screw thread 24-400) assembled with 1.6 mm thick septum, clear silicone / white PTFE or

1.6 mm thick pre-slit septum, clear silicone / white PTFE or

Screw cap (screw thread 24-400) assembled with 3.4 mm thick septum, clear silicone / white PTFE

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




B = blue	G = green	R = red	S = black	W = white	Y = yellow

Glass:

H	clear glass
D	amber glass


Open-top screw caps with silicone/PTFE septum

**Polyamide screw caps for Septum Vials with 9 mm «HP» screw thread
for Septum Vials with 12 mm \varnothing , 1.0 ml - 2 ml volume**


	screw cap with septum	screw cap only	septum only
screw thread 9-425 	9 mm open-top screw cap from glass-fibre enforced polyamide with ribbed cap collar, with 1 mm thick ms-Pure septum, clear silicone/clear PTFE G294*-SKFK10/09	9 mm open-top screw cap from glass-fibre enforced polyamide with ribbed cap collar G294-C*/09	1 mm thick ms-Pure septum from non-pigmented clear silicone / clear PTFE G004-HP-SKFK10
screw thread 9-425 	9 mm open-top screw cap from polyamide with ribbed cap collar, with 1 mm thick ms-Pure septum, clear silicone/clear PTFE G194*-SKFK10/09	9 mm open-top screw cap from polyamide with ribbed cap collar G194-C*/09	
screw thread 9-425 	as above but with smooth cap collar G094*-SKFK10/09	as above but with smooth cap collar G094-C*/09	

Polypropylene screw caps



for Septum Vials with 14 mm \varnothing , 1.0 ml - 5 ml volume

screw thread 13-425 	13 mm open-top screw cap with ribbed cap collar, with 1.6 mm thick septum from clear silicone / white PTFE G074*-SKFW16/13	13 mm open-top screw cap with ribbed cap collar G074-C*/13	1.6 mm thick septum from clear silicone / white PTFE G074-SK16FW02/13
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for Septum Vials with 17 mm \varnothing & 19 mm \varnothing , 2.5 ml - 15 ml volume

screw thread 15-425 	15 mm open-top screw cap with ribbed cap collar, with 1.6 mm thick septum from clear silicone / white PTFE G074*-SKFW16/15	15 mm open-top screw cap with ribbed cap collar G074-C*/15	1.6 mm thick septum from clear silicone / white PTFE G074-SK16FW02/15
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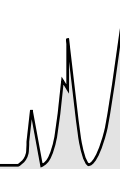
for Septum Vials with 23 mm \varnothing , 7.5 ml - 25 ml volume

screw thread 20-400 	20 mm open-top screw cap with ribbed cap collar, with 1.6 mm thick septum from clear silicone / white PTFE G074*-SKFW16/20	20 mm open-top screw cap with 12 mm \varnothing opening, 10 mm collar height G074-C10*12/20	1.6 mm thick septum from clear silicone / white PTFE G074-SK16FW02/20
screw thread 20-400 	20 mm open-top screw cap with ribbed cap collar, with 3.2 mm thick septum from clear silicone / white PTFE G074*-SKFW34/20	20 mm open-top screw cap with 12 mm \varnothing opening, 13 mm collar height G074-C13*12/20	3.2 mm thick septum from clear silicone / white PTFE G074-SK32FW02/20

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


					
B = blue	G = green	R = red	S = black	W = white	Y = yellow

Septum Vials




Open-top screw caps with silicone/PTFE septum for Septum Vials with 27 mm \varnothing , 10 ml - 60 ml volume


Screw cap 24-400 with 1.6 mm thick septum

	crew cap with septum	screw cap only	septum only
screw thread 24-400 	24 mm open-top screw cap with 11 mm cap collar and 14 mm \varnothing opening, with 1.6 mm thick septum from clear silicone / white PTFE G074*-SKFW16/24	24 mm screw cap with 14 mm \varnothing opening, 11 mm collar height G074-C11*14/24	1.6 mm thick septum from clear silicone / white PTFE G074-SK14FW02/24


Screw cap 24-400 with 1.6 mm thick cross-slit septum

screw thread 24-400 	24 mm open-top screw cap with 11 mm cap collar and 14 mm \varnothing opening, with 1.6 mm thick cross-slit septum from clear silicone / white PTFE G074*-SKFW16/HiX-24	24 mm screw cap with 14 mm \varnothing opening, 11 mm collar height G074-C11*14/24	1.6 mm thick cross-slit septum from clear silicone / white PTFE G074-SK14FW02/HiX-24
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Screw cap 24-400 with 3.1 mm thick septum

screw thread 24-400 	24 mm open-top screw cap with 13 mm cap collar and 14 mm \varnothing opening, with 3.1 mm thick septum from white silicone / red PTFE G074*-SWFR31/24	24 mm screw cap with 14 mm \varnothing opening, 13 mm collar height G074-C13*14/24	3.1 mm thick septum from white silicone / red PTFE G074-SW30FR01/24
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Screw cap 24-400 with 3.4 mm thick septum

screw thread 24-400 	24 mm open-top screw cap with 13 mm cap collar and 14 mm \varnothing opening, with 3.4 mm thick septum from clear silicone/ white PTFE G074*-SKFW34/24	24 mm screw cap with 14 mm \varnothing opening, 13 mm collar height G074-C13*14/24	3.4 mm thick septum from clear silicone / white PTFE G074-SK32FW02/24
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www.chemoline.ch

Protective glasses

(Product number: CLARELLO, colourless: 49-0130)

protects your eyes
clear spectacle lens
various models available



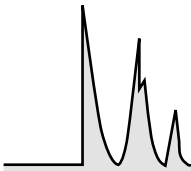
www.chemoline.ch

Disposable Gloves

(Product number: size L: 50-5107)

from latex or nitrile
sizes S - XL
box of 100 pcs





Special vials: culture tubes, flat bottom cuvette, weighing vial

Culture tubes

Flat bottom cuvette



2.5 ml 12 x 43 mm	12 ml 16 x 100 mm	220 ml 60 x 135 mm	10 ml 13 x 84 mm
Culture tube, clear glass	<i>Wall thickness 1 mm</i> Culture tube, clear glass	Culture tube, clear glass	Flat bottom cuvette, clear glass
G052-12/043-H	8052-16/100-H/W10	8052-60/135-H	G052-13/084-H

“Lightweight” weighing vial for using with analytical balances

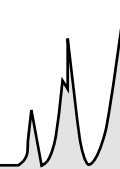
G072-14/045-H/W08
G072-14/045-D/W08

“Lightweight” weighing vial,
screw-top, 4 ml volume,
weight < 4.8 g,
wall thickness 0.8 mm,
especially suited for using with
analytical balances,
clear or amber glass,
size: 14 x 45 mm



Analytical Balance XPE205 from Mettler-Toledo
© by Mettler-Toledo Inc.

Special vials



Special vials: culture tubes, screw vial & cap with cone seal

Culture tubes



3.5 ml 14 x 45 mm	8.5 ml 16 x 75 mm	15 ml 16 x 100 mm	60 ml 27 x 140 mm
screw thread 13-425 screw vial with round base, clear glass	wall thickness 1.2 mm screw thread 13-425 or 15-425 screw vial with round base, clear glass	wall thickness 1.2 mm screw thread 15-425 screw vial with round base, clear glass	screw thread 24-400 screw vial with round base, clear glass
G052-14/045-H	thread 13-425: G052-16/075-H/W12/C13 thread 15-425: G052-16/075-H/W12	G052-16/100-H/W12	G052-27/140-H

with closed-top PTFE lined screw cap

G055*-14/045-H	G055*-16/075-H/W12	G055*-16/100-H/W12	G055*-27/140-H
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with open-top screw cap and septum

1.6 mm thick septum clear silicone/clear PTFE	1.6 mm thick septum clear silicone/white PTFE	1.6 mm thick septum clear silicone/white PTFE	3.4 mm thick septum clear silicone/white PTFE
G054*-14/045-SKFK16-H	G054*-16/075-SKFW16-H/W12	G054*-16/100-SKFW16-H/W12	G054*-27/140-SKFW34-H

Screw vial & cap with cone seal



G060S-29/041-H

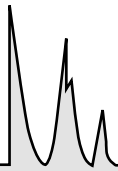
15 ml screw vial, clear glass, dimension 29 x 41 mm,
with black polypropylene screw cap with sealing cone

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

B = blue	G = green	R = red	S = black	W = white	Y = yellow

Glass:

H	clear glass
D	amber glass



Barcoded Vials & V μ -Vials consecutively numbered from 1 to 100

Barcoded Vials

Barcode labelling facilitates sample handling. The information about the sample contained in the barcode can be quickly identified and automatically recorded.

A barcode digitalises information (yes/no) and depicts it with the aid of dark bars in varying width and light spaces (gaps). Depending on the barcode the gaps or the ratio between bar/gap contain information as well. The ratio between narrow and wide bars is standardised and usually lies between 1 : 2.5 - 1 : 3.5.

Before and after the code is a free space called the quiet zone, which is required for a correct decoding of the barcode.

Before and after the quiet zone are start and stop signs which indicate the scan direction.

A barcode can store multiple information on a relatively narrow space such as sample compounds, information about the synthesis, toxicity, storage conditions and more.

In order for the scanner to read the barcode correctly it may not be smudged. Therefore a solvent resistant label is recommended which for additional protection can be laminated.



Barcode Labels

- ☛ Barcode labels can be designed to customer specification. It is for example possible to include the company logo on the label.
- ☛ Labels are available for vials starting from 2 ml volume.
- ☛ We supply the label applied to the vial or the label only.

Barcode Laser Printing

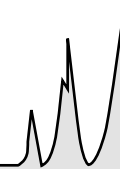
- ☛ The barcode is applied to the vial with a laser printer.
- ☛ Barcode and 2D Matrix Code are possible.



V μ -Vial consecutively numbered from 1 to 100

Agilent compatible V μ -Vial, amber borosilicate glass, size 12 x 32 mm;
1.2 ml total volume and small residual volume, consecutively numbered from 1 - 100

Pre-cleaned Vials and Bottles for TOC & VOC



TOC & VOC certified Vials and Bottles

Process	Typical Application	Description
TOC	Validation of water systems and cleaning validations, TOC trace analysis	Total organic carbon (TOC) is a measure of the amount of carbon covalently bound in organic molecules in a water sample.
VOC	Trace analysis of volatile organic compounds (VOC)	Cleaning following EPA Protocol „B“

TOC certified Vials

TOC Vials, borosilicate glass, complete with open-top screw cap and 1.5 mm thick silicone/PTFE septum. Screw cap and septum welded.

40 ml screw vial pre-cleaned for TOC < 10 ppb

with certificate of compliance and batch number, certified by independent laboratory

volume	glass	dimension	TOC (ppb)	product no.
40 ml	clear	27 x 95 mm	< 10	8S74-40-H/TOC10-15
40 ml	amber	27 x 95 mm	< 10	8S74-40-D/TOC10-15

for 20 ml volume please inquire

60 ml screw vial pre-cleaned for TOC < 10 ppb

with certificate of compliance and batch number, certified by independent laboratory

volume	glass	dimension	TOC (ppb)	product no.
60 ml	clear	27 x 140 mm	< 10	8S74-60-H/TOC10-15



PrePreserved® vials for VOC analysis (Method 5053)

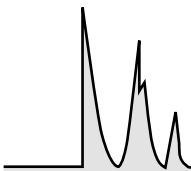
40 ml screw vial with hydrochloride acid

40 ml vial, borosilicate glass, complete with open-top screw cap and 3.2 mm thick clear silicone/PTFE septum

pre-cleaned according to procedure P2 as described on page 52 with certificate of compliance, filled with 0.5 ml hydrochloride acid

volume	glass	dimension	filled with	product no.
40 ml	clear	27 x 95 mm	hydrochloride acid 0.5 ml	8S74-40-H/HCL
40 ml	amber	27 x 95 mm	hydrochloride acid 0.5 ml	8S74-40-D/HCL





Pre-cleaned vials and bottles with certificate of compliance

for pesticide analysis (P1)

container preparation includes

1. non-phosphate detergent washing
2. multiple tap water washing
3. ASTM Type I deionized water rinses
4. 1:1 HNO₃ (nitric acid) & solvent rinses
5. oven drying
6. clean-room assembly of vial, cap and septum

for VOC analysis (P2)

container preparation includes

1. non-phosphate detergent washing
2. multiple tap water washing
3. ASTM Type I deionized water rinses
4. oven drying
5. clean-room assembly of vial, cap and septum

for metal, cyanide, sulfide and fluoride analysis (P3)

container preparation includes




1. non-phosphate detergent washing
2. multiple tap water washing
3. ASTM Type I deionized water rinses
4. 1:1 HNO₃ (nitric acid) rinses
5. oven drying
6. clean-room assembly of vial, cap and septum

for nitrate/nitrite analysis (P4)

container preparation includes

1. non-phosphate detergent washing
2. multiple tap water washing
3. ASTM Type I deionized water rinses
4. 1:1 H₂SO₄ (sulphuric acid) rinses
5. oven drying
6. clean-room assembly of vial, cap and septum

Pre-cleaned bottles with PTFE lined closed-top screw cap

	<p>8S75-WM-125-H/P* 8S75-WM-125-D/P*</p>	<p>125 ml straight sided screw bottle, clear or amber glass, dimension 60 x 68 mm, with PTFE lined closed-top screw cap (screw thread 58-400)</p>
	<p>8S75-WM-250-H/P* 8S75-WM-250-D/P*</p>	<p>250 ml straight sided screw bottle, clear or amber glass, dimension 72 x 89 mm, with PTFE lined closed-top screw cap (screw thread 70-400)</p>
	<p>8S75-WM-950-D/P*</p>	<p>950 ml wide-mouth screw bottle, amber glass, dimension 99 x 175 mm, with PTFE lined closed-top screw cap (screw thread 33-430)</p>



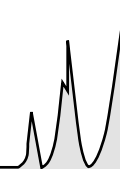
Glass:


H	clear glass
D	amber glass

replace the «*» of the product no. with the number of your chosen cleaning procedure described above.

Other volumes and bottle dimensions available. Please inquire.






Pre-cleaned Vials and Bottles



	8S75-NM-1000-D/P*	1000 ml narrow-mouth screw bottle, amber glass, dimension 98 x 210 mm with PTFE lined closed-top screw cap (screw thread 24-400)
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Pre-cleaned vials & bottles with open-top screw cap and silicone/PTFE septum

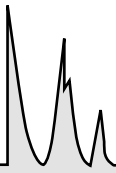
	8S74-20-H/P* 8S74-20-D/P*	20 ml screw vial, clear or amber glass, dimension 27 x 57 mm, assembled with open-top screw cap (screw thread 24-414) & 3.2 mm thick clear silicone/PTFE septum
	8S74-40-H/P*-15W	40 ml screw vial, clear glass, dimension 27 x 95 mm, assembled with open-top screw cap (screw thread 24-414) & 1.5 mm thick clear silicone/PTFE cap & septum welded
	8S74-40-H/P* 8S74-40-D/P*	40 ml screw vial, clear or amber glass, dimension 27 x 95 mm, assembled with open-top screw cap (screw thread 24-414) & 3.2 mm thick clear silicone/PTFE septum
	8S74-60-H/P* 8S74-60-D/P*	60 ml screw vial, clear or amber glass, dimension 27 x 140 mm, assembled with open-top screw cap (screw thread 24-414) & 3.2 mm thick clear silicone/PTFE septum
	8S74-NM-250-H/P*	250 ml narrow-mouth screw bottle, clear glass, dimension 60 x 71 mm, assembled with open-top screw cap (screw thread 24-414) & 3.2 mm thick clear silicone/PTFE septum

Glass:

H	clear glass
D	amber glass

replace the «*» of the product no. with the number of your chosen cleaning procedure as described on page 52.

Other volumes and bottle dimensions available. Please inquire.



Autoclavable lyophilisation crimp vials & caps

2 ml - 5 ml lyophilisation crimp vial with 13 mm crimp head



<p>8082-16/032-H/AS 2 ml inner surface tempered clear glass 16 x 32 mm</p>	<p>8082-16/032-H/FL 2 ml extra flat bottom clear glass 16 x 32 mm</p>	<p>8082-15/033-H 2 ml clear glass 15 x 33 mm</p>	<p>8082-16/035-H 8082-16/035-D 3 ml clear glass / amber glass 16 x 35 mm</p>
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<p>8082-15/036-H/SK 3 ml siliconised clear glass 15 x 36 mm</p>	<p>8082-15/037-H 3 ml clear glass 15 x 37 mm</p>	<p>8082-16/050-D 5 ml amber glass 16 x 50 mm</p>
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13 mm aluminium crimp cap with tear-off seal & stopper

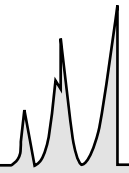


<p>8083-TO 13 mm aluminium crimp cap with tear-off seal</p>	<p>8083-Lio 13 mm stopper, grey butyl rubber, matching crimp cap 8083-TO</p>	<p>8083-Bu 13 mm stopper, grey butyl rubber, matching crimp cap 8083-TO</p>
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Glass:

H	clear glass
D	amber glass

Lyophilisation crimp vials & caps



6 ml - 25 ml lyophilisation crimp vial with 20 mm crimp head



8086-21/038-H/AS
6 ml
inner surface tempered
clear glass
21 x 38 mm



8086-22/040-H
8086-22/040-D
6 ml
clear glass / amber glass
22 x 40 mm



8086-24/045-D
10 ml
amber glass
24 x 45 mm



8086-24/045-H/AS
10 ml
inner surface tempered
clear glass
24 x 45 mm



G006-10-H/FL
10 ml
extra flat bottom
clear glass
23 x 46 mm



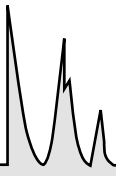
8086-24/060-H/AS
15 ml
inner surface tempered
clear glass
24 x 60 mm



8086-30/055-H
8086-30/055-D
20 ml
clear glass / amber glass
30 x 55 mm



8086-30/065-H/AS
25 ml
inner surface tempered
clear glass
30 x 65 mm



Lyophilisation crimp vials & caps

30 ml - 100 ml lyophilisation crimp vial with 20 mm crimp head



8086-36/062-H 30 ml clear glass 36 x 62 mm	8086-43/073-H 8086-43/073-D 50 ml clear / amber glass 43 x 73 mm	8086-100-H 8086-52/095-D 100 ml clear / amber glass 52 x 95 mm
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20 mm aluminium crimp cap with tear-off seal & stopper


















8087-T0 20 mm aluminium crimp cap with tear-off seal	8087-Si 20 mm silicone stopper	8087-Bu 20 mm stopper, grey butyl rubber	8087-Bu/Te 20 mm stopper, grey butyl rubber, black PTFE	8087-Lio2 20 mm stopper, grey butyl rubber <i>(available sterile, min. pack of 2000 pcs.)</i>	8087-Lio 20 mm stopper, grey butyl rubber
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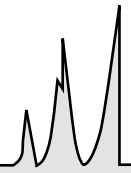
20 mm "Flipp-off®" crimp caps

20 mm "Flipp-off®" aluminium crimp cap with plastic disc, available in 15 different colours



 B = blue 8087-F0B	 C = clear 8087-F0C	 DB = dark blue 8087-F0DB	 DG = dark green 8087-F0DG	 G = green 8087-F0G	 HB = light blue 8087-F0HB	 L = lavender 8087-F0L	 O = orange 8087-F0O
 R = red 8087-F0R	 S = black 8087-F0S	 V = purple 8087-F0V	 W = white 8087-F0W	 WS = gray 8087-F0WS	 YG = lime 8087-F0YG	 Y = yellow 8087-F0Y	

Lyophilisation Screw Vials & Caps



Autoclavable Lyophilisation Screw Vials

3 ml - 5 ml lyophilisation screw vials, screw-thread GL 18



8084-03-H 3 ml clear glass 18 x 36 mm	8084-03-D 3 ml amber glass 18 x 36 mm	8084-05-H 5 ml clear glass 18 x 41 mm	8084-05-D 5 ml amber glass 18 x 41 mm
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Screw cap & stopper



8084-CW-Lio 17 mm autoclavable, white polypropylene screw cap	8084-Lio 14 mm stopper, grey butyl rubber	8084-CW-PP 17 mm screw cap polyethylene lined <i>(not autoclavable)</i>
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10 ml - 25 ml lyophilisation screw vials, screw thread GL 14



8084-10-H 8084-10-D 10 ml clear / amber glass 25 x 50 mm	8084-30/055-H/SK siliconised 20 ml clear glass 30 x 55 mm	8084-20-H 8084-20-D 20 ml clear / amber glass 28 x 63 mm	8084-25-H 8084-25-D 25 ml clear / amber glass 32 x 63 mm
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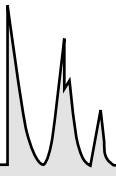
Screw cap and stopper



8084-CW/22-Lio 22 mm autoclavable, white polypropylene screw cap	8084-CR/22-Lio 22 mm autoclavable, red polypropylene screw cap	8087-Lio 18 mm stopper, grey butyl rubber, <i>to be used with caps 8084-C*/22-Lio</i>	8084-CW/22-PP 22 mm screw cap with synthetic seal <i>(not autoclavable)</i>
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Glass:

H	clear glass
D	amber glass



infochroma's controlled zone for sterile and depyrogenated vials & closures



Since June 2015, infochroma has a controlled zone, where vials and closures may be washed, sterilised, depyrogenated, all according to customer specifications.

Since moving to larger premises in the summer 2016, we have a much larger controlled zone so that we can also swiftly produce large series tailored to customer needs.



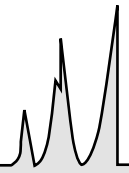
This we can do:

- Purified water rinse (de-ionised / de-mineralised water)
- packing in low-particle environment
- hot air sterilisation
- hot-air depyrogenisation
- 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
- Analysis for sterility and BET test (bacterial endotoxin-test) carried out by an independent accredited microbiology laboratory
- Detection limit BET: <math><0.001\text{ EU/ml}</math>
- Long term objective: GMP accreditation



Specifications of the controlled zone

Specifications for structure and infrastructure

The demand on infrastructure, equipment, work process and personnel is high in a controlled zone. The specifications for structure and infrastructure have to be strictly observed in order to achieve the quality required of a controlled zone product.

The controlled zone has to be separated from the office and warehouse area by a sluice area. This spatial separation minimises the risk of contamination through germs.

It is also indispensable that all surfaces, including walls, ceiling, equipment and so forth, in the controlled zone as well as the sluice area can be completely disinfected. In addition, the air in the controlled zone is cleaned by HEPA filters and the ambient air is controlled by an air conditioner.



Monitoring of material / flowing of goods / storing of finished products

Storing material in an aseptic environment is essential for achieving the required quality of a controlled zone product. infochroma stores all required material exclusively in the sluice area.

Alongside, we introduced a strictly separated goods flow system which allows us to visually and accurately identify the current status of a controlled zone product. The finished product is stored protected from light, in ambient temperature and a particle free area until delivery to the customer.

As of summer 2016, the finished products will be stored at a controlled and stable temperature in the controlled zone. The shelf life of a controlled zone product is two years from date of production.



Controlled zone staff

The controlled zone production at infochroma is exclusively operated by trained personnel.

Trained personnel only is allowed to enter the controlled zone.

Access to the controlled zone is only allowed to personnel wearing protective clothing.



Machine park:

- ☛ Miele Mielabor G7783 CD
- ☛ KOJAIR CleanWizard V 200
- ☛ hawo HM 660 AS-V
- ☛ Memmert SF 750 Plus



Work process, equipment, quality control and lot specific certificate



Rinsing of the product in the lab washer

The actual cleaning process starts with the rinsing of the products in the lab washer. The products are rinsed with DI-water < 50 µS (deionised, demineralised water). On customer request the rinsing with other DI water values is possible.



Packing under LAF

Afterwards the rinsed products are packed in an SBS (sterile barrier system) under LAF (LAF Flow Box).



Thermal process / labelling

The thermal process takes place in the steriliser.

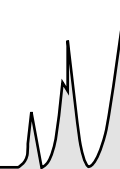
Finally the product is labelled. The label holds the following information:

- Product number
- Product name
- Pack size
- Lot number
- Production date
- Expiration date

Quality control / lot specific certificate

After the final visual inspection of one hundred per cent of the finished product, samples of each lot are sent to an independent accredited microbiology laboratory, which analyses the samples for sterility and undertakes the BET (bacterial endotoxin test). Only after the laboratory has confirmed that the test results comply with the requirements, the cleaned products held in the quarantine area are released for sales together with a lot specific certificate.

Zertifikat pdf 1.1 MB








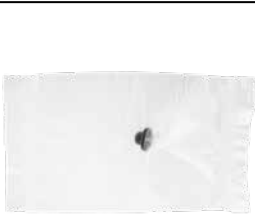
Sterile & depyrogenated vials and closures from the in-house controlled zone

Process	Typical Application	Description
Depyrogenation validated 3-log reduction	Injectable or parenteral drugs, lyophilisation, final packaging prior to drug delivery, stability studies, clinical trial	Depyrogenation destroys and removes endotoxines. Endotoxines are fever producing substances which are found in the cell wall of certain bacteria. Depyrogenated products have reduced endotoxin content by at least 99.9%.
Steam Sterilisation	Injectable or parenteral drugs, lyophilisation, final packaging prior to drug delivery, stability studies	Sterilization involving steam, heat and pressure to destroy all viable forms of life, including bacterial spores to an acceptable sterility assurance level (SAL) of 10^{-6}
Irradiation	Injectable or parenteral drugs, lyophilisation, final packaging prior to drug delivery, stability studies, clinical trials	A radiation dose sufficient to destroy all viable forms of life including bacterial spores, is applied to an acceptable sterility level (SAL). A typical radiation dose is 25-40 kGy, which produces the required SAL of 10^{-6}

In the infochroma controlled zone we clean, sterilise and depyrogenise (endotoxin content < 0.05 EU/ml) vials and closures according to customer specifications. It can also be specified how many pieces of a product and what combination of products an individual sachet should contain. All products are supplied with a lot specific certificate.

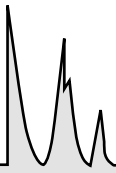
On the next pages you find an extract from our controlled zone product range.
For customer specific products please contact: anfrage@infochroma.ch.

3 ml crimp vial with 13 mm crimp head & closures

		GPEZ-16/035-H GPEZ-16/035-D	3 ml crimp vial with 13 mm crimp head, clear or amber glass, dimension 16 x 35 mm, individually sealed, sterile & depyrogenated, including lot specific certificate
		GPEZ-3TO	13 mm aluminium crimp cap with tear-off seal, individually sealed, sterile & depyrogenated, including lot specific certificate
		GPEZ-3Bu	13 mm grey butyl rubber stopper, individually sealed, sterile & depyrogenated, including lot specific certificate



Glass:

H	clear glass
D	amber glass













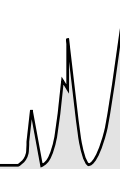
Sterile & depyrogenated products from the controlled zone

Sterile & depyrogenated vials and closures from the in-house controlled zone

 <p>Infochroma ag Mit Zertifikat für die Entpyrogenisierung im Heissluftverfahren Zertifikat pdf 1.1 M</p>		<p>GPEZ-16/035-H/3BuTO GPEZ-16/035-D/3BuTO</p>	<p>The individual kit contains the following sterile and depyrogenated products:</p> <ul style="list-style-type: none"> 3 ml crimp vial, with 13 mm crimp head, clear or amber glass, dimension 16 x 35 mm 13 mm aluminium crimp cap with tear-off seal 13 mm grey butyl rubber stopper including lot specific certificate
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5 ml - 100 ml crimp vial with 20 mm crimp head & closures

 <p>Infochroma ag Mit Zertifikat für die Entpyrogenisierung im Heissluftverfahren Zertifikat pdf 1.1 M</p>		<p>GPEZ-22/040-H GPEZ-22/040-D</p>	<p>5 ml crimp vial with 20 mm crimp head, clear or amber glass, dimension 22 x 40 mm, individually sealed, sterile & depyrogenated, including lot specific certificate</p>
 <p>Infochroma ag Mit Zertifikat für die Entpyrogenisierung im Heissluftverfahren Zertifikat pdf 1.1 M</p>		<p>GPEZ-24/045-H GPEZ-24/045-D</p>	<p>10 ml crimp vial with 20 mm crimp head, clear or amber glass, dimension 24 x 45 mm, individually sealed, sterile & depyrogenated, including lot specific certificate</p>
 <p>Infochroma ag Mit Zertifikat für die Entpyrogenisierung im Heissluftverfahren Zertifikat pdf 1.1 M</p>		<p>GPEZ-43/073-H GPEZ-43/073-D</p>	<p>50 ml crimp vial with 20 mm crimp head, clear or amber glass, dimension 43 x 73 mm, individually sealed, sterile & depyrogenated, including lot specific certificate</p>
 <p>Infochroma ag Mit Zertifikat für die Entpyrogenisierung im Heissluftverfahren f 1.1 M</p>		<p>GPEZ-7TO</p>	<p>20 mm aluminium crimp cap with tear-off seal, individually sealed, sterile & depyrogenated, including lot specific certificate</p>
 <p>Infochroma ag Mit Zertifikat für die Entpyrogenisierung im Heissluftverfahren f 1.1 M</p>		<p>GPEZ-7Lio2</p>	<p>20 mm grey butyl rubber stopper, individually sealed, sterile & depyrogenated, including lot specific certificate</p>



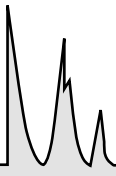
Sterile & depyrogenated vials and closures from the in-house controlled zone

5 ml - 100 ml crimp vial with 20 mm crimp head & closures

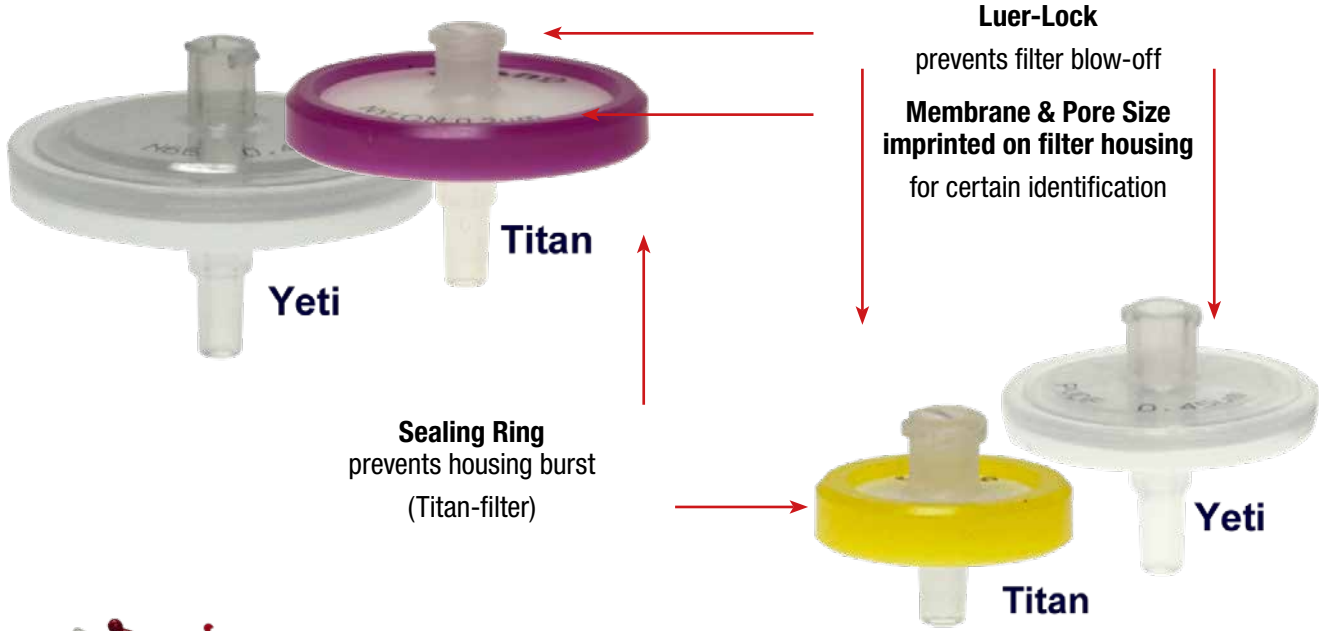
<p>Infochroma ag Mit Zertifikat für die Entpyrogenisierung im Heißluftverfahren Zertifikat pdf 1.1 M</p>		<p>GPEZ-22/040-H/7Lio2TO GPEZ-22/040-D/7Lio2TO</p>	<p>The individual kit contains the following sterile and depyrogenated products:</p> <ul style="list-style-type: none"> 5 ml crimp vial with 20 mm crimp head, clear or amber glass, dimension 22 x 40 mm, 20 mm aluminium crimp cap with tear-off seal, 20 mm grey butyl rubber stopper, including lot specific certificate
<p>Infochroma ag Mit Zertifikat für die Entpyrogenisierung im Heißluftverfahren Zertifikat pdf 1.1 M</p>		<p>GPEZ-24/045-H/7Lio2TO GPEZ-24/045-D/7Lio2TO</p>	<p>The individual kit contains the following sterile and depyrogenated products:</p> <ul style="list-style-type: none"> 10 ml crimp vial with 20 mm crimp head, clear or amber glass, dimension 24 x 45 mm, 20 mm aluminium crimp cap with tear-off seal, 20 mm grey butyl rubber stopper including lot specific certificate
<p>Infochroma ag Mit Zertifikat für die Entpyrogenisierung im Heißluftverfahren Zertifikat pdf 1.1 M</p>		<p>GPEZ-43/073-H/7Lio2TO GPEZ-43/073-D/7Lio2TO</p>	<p>The individual kit contains the following sterile and depyrogenated products:</p> <ul style="list-style-type: none"> 50 ml crimp vial with 20 mm crimp head, clear or amber glass, dimension 43 x 73 mm, 20 mm aluminium crimp cap with tear-off seal, 20 mm grey butyl rubber stopper including lot specific certificate

Glass:

H	clear glass
D	amber glass









HPLC Syringe filter and accessory



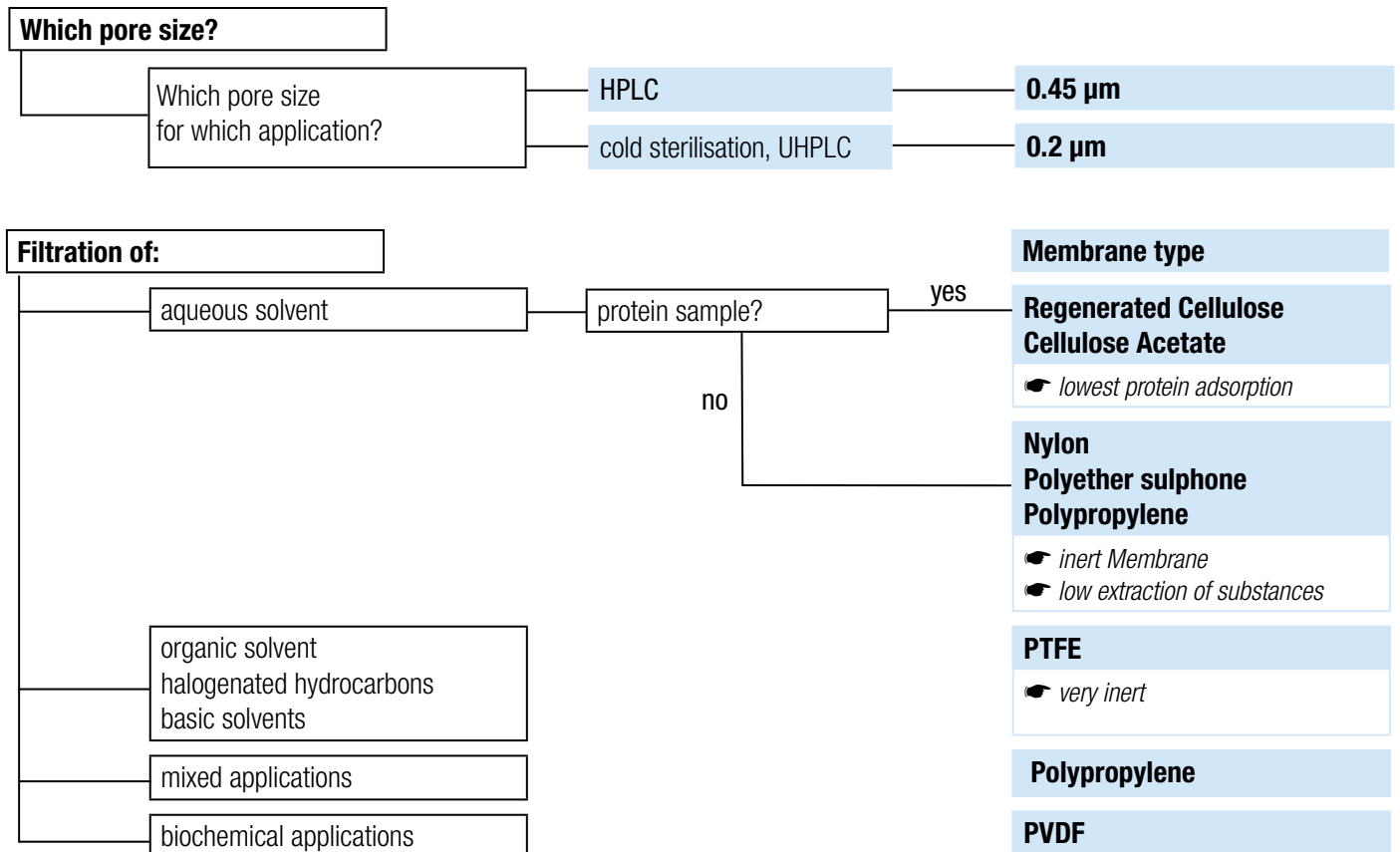
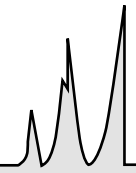
All Yeti filter diameters and membranes are available with pore sizes from 0.1 µm to 10 µm.

For conventional Chromatography we recommend a pore size of 0.45 µm, for UHPLC pore sizes from 0.22 µm or 0.1 µm.

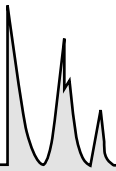
Which filter diameter for which sample volume?

 <p>Yeti Titan</p>	<p>sample volume ≤ 2 ml sample loss < 7.5 µl</p> <p>4 mm filter</p>	 <p>Yeti</p>	<p>sample volume ≤ 100 ml sample loss < 50 µl</p> <p>25 mm filter</p>
 <p>Yeti</p>	<p>sample volume ≤ 10 ml sample loss < 25 µl</p> <p>13 mm filter</p>	 <p>Titan</p>	<p>sample volume ≤ 150 ml sample loss < 100 µl</p> <p>30 mm filter</p>
 <p>Titan</p>	<p>sample volume ≤ 20 ml sample loss < 30 µl</p> <p>17 mm filter</p>	 <p>Yeti</p>	<p>sample volume ≤ 200 ml sample loss < 137 µl</p> <p>33 mm filter</p>

HPLC syringe filter



Membranes and their properties	Nylon (N)	Regenerated Cellulose (RC)	PTFE Hydrophobic (P)	PTFE Hydrophilic (P-x/HY)	Polyether sulphone (PES)	Cellulose Acetate (CA) Mixed Cellulose Ester (MCE)	Poly-Vinyliden-Di-Fluoride (PVDF)	Polypropylen (PP)
alcohol	X		X	X	X		X	X
aromatic compounds			X	X				
bases	X							
benzoic hydrocarbons			X	X				
bio molecules		X					X	
solvents			X	X				
hexane			X	X				
organic solvent			X	X				
peptide		X			X		X	
proteins		X			X		X	
weak acids	X		X	X			X	
strong bases			X	X	X			
strong acids			X	X				
THF	X		X	X				
water	X	X		X				X
aqueous solvents	X	X		X				X
aqueous samples	X	X		X		X		X



Yeti syringe filter

- ☛ Luer-Lock prevents filter blow-off.
- ☛ Membrane & porosity imprinted on filter housing for certain identification
- ☛ Porosities from: 0.1 µm - 10 µm
- ☛ Available membranes:
Nylon, Regenerated Cellulose, Polypropylene, PTFE, Polyethersulfone, MCE, PVDF
- ☛ Available filter diameters:
 - 8804Y = ø 4 mm - sample volume up to 2 ml
 - 8813Y = ø 13 mm - sample volume up to 10 ml
 - 8825Y = ø 25 mm - sample volume up to 100 ml
 - 8833Y = ø approx. 30 mm - sample volume up to approx. 200 ml

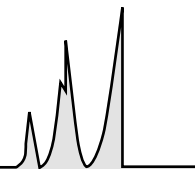


Membrane	available pore sizes										
	0.1 µm	0.22 µm	0.45 µm	-	0.8 µm	1.0 µm	-	-	3.0 µm	5.0 µm	10 µm
Nylon	0.1 µm	0.22 µm	0.45 µm	-	0.8 µm	1.0 µm	-	-	3.0 µm	5.0 µm	10 µm
Regenerated Cellulose	-	0.22 µm	0.45 µm	-	-	-	-	-	-	-	-
Polypropylene	0.1 µm	0.22 µm	0.45 µm	-	-	-	1.2 µm	2.0 µm	-	-	-
PTFE Hydrophobic	0.1 µm	0.22 µm	0.45 µm	-	0.8 µm	1.0 µm	-	-	3.0 µm	5.0 µm	10 µm
PTFE Hydrophilic	-	0.22 µm	0.45 µm	-	-	-	-	-	-	-	-
PES	0.1 µm	0.22 µm	0.45 µm	0.65 µm	0.8 µm	-	1.2 µm	-	-	-	-
MCE <i>Mixed Cellulose Ester</i>	0.1 µm	0.22 µm	0.45 µm	-	0.8 µm	1.0 µm	-	-	3.0 µm	5.0 µm	-
PVDF <i>Poly-Vinyliden-Di-Fluoride</i>	0.1 µm	0.22 µm	0.45 µm	0.65 µm	-	1.0 µm	-	2.0 µm	3.0 µm	5.0 µm	-
Product Code for Pore Sizes	-1	-2	-4	-6	-8	-10	-12	-20	-30	-50	-100

Order information: replace «x» with the pore size of your choice, see table above

Membrane	4 mm	13 mm	25 mm	33 mm
Nylon	8804Y-N-x	8813Y-N-x	8825Y-N-x	8833Y-N-x
Regenerated Cellulose	8804Y-RC-x	8813Y-RC-x	8825Y-RC-x	8833Y-RC-x
Polypropylene	8804Y-PP-x	8813Y-PP-x	8825Y-PP-x	8833Y-PP-x
PTFE Hydrophobic	8804Y-P-x	8813Y-P-x	8825Y-P-x	8833Y-P-x
PTFE Hydrophilic	8804Y-P-x/HY	8813Y-P-x/HY	8825Y-P-x/HY	8833Y-P-x/HY
PES	8804Y-PES-x	8813Y-PES-x	8825Y-PES-x	8833Y-PES-x
MCE	8804Y-MCE-x	8813Y-MCE-x	8825Y-MCE-x	8833Y-MCE-x
PVDF <i>Poly-Vinyliden-Di-Fluoride</i>	8804Y-PV-x	8813Y-PV-x	8825Y-PV-x	8833Y-PV-x
pack size	pack of 200 pcs.	pack of 250 pcs.	pack of 200 pcs.	pack of 125 pcs.

HPLC syringe filter



HPLC syringe filter with Nylon membrane

for the filtration of:









water, aqueous solvents, alcohol, bases, aromatic hydrocarbons, THF

The Nylon membrane is extremely low in extractables and mechanically very strong. It possesses good thermal stability up to 50°C and is a good all-round filter for HPLC samples. It is a naturally hydrophilic membrane that provides broad compatibility with aqueous and organic samples.

incompatible with:

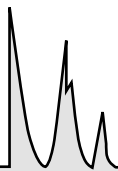
acids, halogenated solvents, protein samples with high non-specific binding affinities



Filtration volume	up to 2 ml	up to 10 ml	up to 30 ml	up to 100 ml	up to 150 ml	up to 200 ml
Sample loss	< 15 µl	< 25 µl	< 29 µl	< 50 µl	< 137 µl	< 137 µl
Filter ø	4 mm	13 mm	17 mm	25 mm	30 mm	33 mm
Pore size Filter colour / brand						
0.1 µm Yeti 	8804Y-N-1 200 pcs./pack	8813Y-N-1 250 pcs./pack	-	8825Y-N-1 200 pcs./pack	-	8833Y-N-1 125 pcs./pack
0.22 µm Yeti 	8804Y-N-2 200 pcs./pack	8813Y-N-2 250 pcs./pack	-	8825Y-N-2 200 pcs./pack	-	8833Y-N-2 125 pcs./pack
0.22 µm Titan	8804-N-2 100 pcs./pack	-	8817-N-2 200 pcs./pack	-	8830-N-2 100 pcs./pack	-
0.45 µm Yeti 	8804Y-N-4 200 pcs./pack	8813Y-N-4 250 pcs./pack	-	8825Y-N-4 200 pcs./pack	-	8833Y-N-4 125 pcs./pack
0.45 µm Titan	8804-N-4 100 pcs./pack	-	8817-N-4 200 pcs./pack	-	8830-N-4 100 pcs./pack	-
0.8 µm Yeti 	8804Y-N-8 200 pcs./pack	8813Y-N-8 250 pcs./pack	-	8825Y-N-8 200 pcs./pack	-	8833Y-N-8 125 pcs./pack
1.0 µm Yeti 	8804Y-N-10 200 pcs./pack	8813Y-N-10 250 pcs./pack	-	8825Y-N-10 200 pcs./pack	-	8833Y-N-10 125 pcs./pack
1.5 µm Titan	-	-	-	-	8830-N-15 100 pcs./pack	-
3.0 µm Yeti 	8804Y-N-30 200 pcs./pack	8813Y-N-30 250 pcs./pack	-	8825Y-N-30 200 pcs./pack	-	8833Y-N-30 125 pcs./pack
5.0 µm Yeti 	8804Y-N-50 200 pcs./pack	8813Y-N-50 250 pcs./pack	-	8825Y-N-50 200 pcs./pack	-	8833Y-N-50 125 pcs./pack
5.0 µm Titan	-	-	-	-	8830-N-50 100 pcs./pack	-
10 µm Yeti 	8804Y-N-100 200 pcs./pack	8813Y-N-100 250 pcs./pack	-	8825Y-N-100 200 pcs./pack	-	8833Y-N-100 125 pcs./pack

When ordering Yeti filter please note that:

filters with product numbers printed in blue are available ex stock, subject to prior sale;
other filters have a standard delivery delay of at least 2 weeks.





HPLC syringe filter with regenerated cellulose membrane

for the filtration of: proteins, peptides and other biomolecules

Regenerated cellulose is a hydrophilic solvent resistant membrane. It is a very low protein binder and is ideal for low nonspecific binding applications; tissue culture, media filtration and general biological sample filtration.



incompatible with: acids, chloroform, THF

Filtration volume	up to 2 ml	up to 10 ml	up to 30 ml	up to 100 ml	up to 150 ml	up to 200 ml
Sample loss	< 15 µl	< 25 µl	< 29 µl	< 50 µl	< 137 µl	< 137 µl
Filter ø Pore size Filter colour / brand	4 mm	13 mm	17 mm	25 mm	30 mm	33 mm
0.22 µm Yeti 	8804Y-RC-2 200 pcs./pack	8813Y-RC-2 250 pcs./pack	-	8825Y-RC-2 200 pcs./pack	-	8830Y-RC-2 125 pcs./pack
0.22 µm Titan	8804-RC-2 100 pcs./pack	-	8817-RC-2 200 pcs./pack	-	8830-RC-2 100 pcs./pack	-
0.45 µm Yeti 	8804Y-RC-4 200 pcs./pack	8813Y-RC-4 250 pcs./pack	-	8825Y-RC-4 200 pcs./pack	-	8830Y-RC-4 125 pcs./pack
0.45 µm Titan	8804-RC-4 100 pcs./pack	-	8817-RC-4 200 pcs./pack	-	8830-RC-4 100 pcs./pack	-






HPLC syringe filter with Polypropylene membrane

for the filtration of: acids or bases, general HPLC analysis

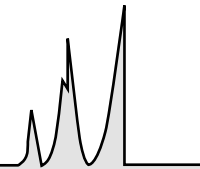
Hydrophilic polypropylene membranes are chemically resistant and suitable for a wide variety of organic and aqueous based samples. They are low protein binders and can be used with strong acids and bases without prewetting.



incompatible with: Hexane, Toluene, Benzene, limited resistance to MeCl and Chloroform

Filtration volume	up to 2 ml	up to 10 ml	up to 30 ml	up to 100 ml	up to 150 ml	up to 200 ml
Sample loss	< 15 µl	< 25 µl	< 29 µl	< 50 µl	< 137 µl	< 137 µl
Filter ø Pore size Filter colour / brand	4 mm	13 mm	17 mm	25 mm	30 mm	33 mm
0.1 µm Yeti 	-	-	-	8825Y-PP-1 200 pcs./pack	-	8833Y-PP-1 125 pcs./pack
0.22 µm Yeti 	8804Y-PP-2 200 pcs./pack	8813Y-PP-2 250 pcs./pack	-	8825Y-PP-2 200 pcs./pack	-	8833Y-PP-2 125 pcs./pack
0.22 µm Titan	-	-	8817-PP-2 200 pcs./pack	-	8830-PP-2 100 pcs./pack	-
0.45 µm Yeti 	8804Y-PP-4 200 pcs./pack	8813Y-PP-4 250 pcs./pack	-	8825Y-PP-4 200 pcs./pack	-	8833Y-PP-4 125 pcs./pack
0.45 µm Titan	-	-	8817-PP-4 200 pcs./pack	-	8830-PP-4 100 pcs./pack	-
1.2 µm Yeti 	8804Y-PP-12 200 pcs./pack	8813Y-PP-12 250 pcs./pack	-	8825Y-PP-12 200 pcs./pack	-	8833Y-PP-12 125 pcs./pack
2.0 µm Yeti 	8804Y-PP-20 200 pcs./pack	8813Y-PP-20 250 pcs./pack	-	8825Y-PP-20 200 pcs./pack	-	8833Y-PP-20 125 pcs./pack

HPLC syringe filter



HPLC syringe filter with PTFE membrane









for the filtration of: aggressive solvents, strong acids, alcohols, bases, aromatics

Polytetrafluoroethylene (PTFE) membranes are chemically resistant to nearly all solvents, acids and bases. The membrane has low extractables and a good thermal stability. PTFE is hydrophobic and requires pre-wetting prior to use with aqueous solvents.

The **Yeti filter** is also available with a **hydrophilic PTFE Membrane** which can be used with water, aqueous samples and aqueous solvents.

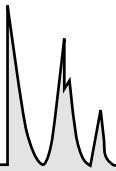


incompatible with: hydrophobic PTFE with aqueous Samples without pre-wetting of filter

Filtration volume	up to 2 ml	up to 10 ml	up to 30 ml	up to 100 ml	up to 150 ml	up to 200 ml
Sample loss	< 15 µl	< 25 µl	< 29 µl	< 50 µl	< 137 µl	< 137 µl
Filter ø	4 mm	13 mm	17 mm	25 mm	30 mm	33 mm
Pore Size Filter Colour / Brand						
0.1 µm Yeti 	-	8813Y-P-1 <i>250 pcs./pack</i>	-	8825Y-P-1 <i>200 pcs./pack</i>	-	8833Y-P-1 <i>125 pcs./pack</i>
0.22 µm Yeti Hydrophilic (HY) 	8804Y-P-2 8804Y-P-2/HY <i>200 pcs./pack</i>	8813Y-P-2 8813Y-P-2/HY <i>250 pcs./pack</i>	-	8825Y-P-2 8825Y-P-2/HY <i>200 pcs./pack</i>	-	8833Y-P-2 8833Y-P-2/HY <i>125 pcs./pack</i>
0.22 µm Titan	8804-P-2 <i>100 pcs./pack</i>	-	8817-P-2 <i>200 pcs./pack</i>	-	8830-P-2 <i>100 pcs./pack</i>	-
0.45 µm Yeti Hydrophilic (HY) 	8804Y-P-4 8804Y-P-4/HY <i>200 pcs./pack</i>	8813Y-P-4 8813Y-P-4/HY <i>250 pcs./pack</i>	-	8825Y-P-4 8825Y-P-4/HY <i>200 pcs./pack</i>	-	8833Y-P-4 8833Y-P-4/HY <i>125 pcs./pack</i>
0.45 µm Titan	8804-P-4 <i>100 pcs./pack</i>	-	8817-P-4 <i>200 pcs./pack</i>	-	8830-P-4 <i>100 pcs./pack</i>	-
0.8 µm Yeti 	-	-	-	-	-	8833Y-P-8 <i>125 pcs./pack</i>
1.0 µm Yeti 	8804Y-P-10 <i>200 pcs./pack</i>	8813Y-P-10 <i>250 pcs./pack</i>	-	8825Y-P-10 <i>200 pcs./pack</i>	-	8833Y-P-10 <i>125 pcs./pack</i>
1.0 µm Titan	-	-	-	-	8830-P-10 <i>100 pcs./pack</i>	-
3.0 µm Yeti 	8804Y-P-30 <i>200 pcs./pack</i>	8813Y-P-30 <i>250 pcs./pack</i>	-	8825Y-P-30 <i>200 pcs./pack</i>	-	8833Y-P-30 <i>125 pcs./pack</i>
5.0 µm Yeti 	8804Y-P-50 <i>200 pcs./pack</i>	8813Y-P-50 <i>250 pcs./pack</i>	-	8825Y-P-50 <i>200 pcs./pack</i>	-	8833Y-P-50 <i>125 pcs./pack</i>
10 µm Yeti 	-	8813Y-P-100 <i>250 pcs./pack</i>	-	8825Y-P-100 <i>200 pcs./pack</i>	-	8833Y-P-100 <i>125 pcs./pack</i>

When ordering Yeti filter please note that:

filters with product numbers printed in blue are available ex stock, subject to prior sale;
other filters have a standard delivery delay of at least 2 weeks.



HPLC syringe filter







HPLC syringe filter with Polyethersulfone membrane

for the filtration of: strong bases, alcohols, proteins, peptide

Polyethersulfone is a hydrophilic membrane with very low protein binding and high flow characteristics. It is also certified for ion chromatography. Polyethersulfone is more heat resistant than most membranes, and can be used to 100°C.



incompatible with: concentrated acids, MeCl, chloroform, hexane, acetone, MEK, THF, DMSO

Filtration volume	up to 2 ml	up to 10 ml	up to 30 ml	up to 100 ml	up to 150 ml	up to 200 ml
Sample loss	< 15 µl	< 25 µl	< 29 µl	< 50 µl	< 137 µl	< 137 µl
Filter ø	4 mm	13 mm	17 mm	25 mm	30 mm	33 mm
Pore size Filter colour / brand						
0.1 µm Yeti 	8804Y-PES-1 200 pcs./pack	8813Y-PES-1 250 pcs./pack	-	8825Y-PES-1 200 pcs./pack	-	8833Y-PES-1 125 pcs./pack
0.22 µm Yeti 	8804Y-PES-2 200 pcs./pack	8813Y-PES-2 250 pcs./pack	-	8825Y-PES-2 200 pcs./pack	-	8833Y-PES-2 125 pcs./pack
0.22 µm Titan	-	-	8817-PES-2 200 pcs./pack	-	8830-PES-2 100 pcs./pack	-
0.45 µm Yeti 	8804Y-PES-4 200 pcs./pack	8813Y-PES-4 250 pcs./pack	-	8825Y-PES-4 200 pcs./pack	-	8833Y-PES-4 125 pcs./pack
0.45 µm Titan	-	-	8817-PES-4 200 pcs./pack	-	8830-PES-4 100 pcs./pack	-
0.65 µm Yeti 	-	8813Y-PES-6 250 pcs./pack	-	8825Y-PES-6 200 pcs./pack	-	8833Y-PES-6 125 pcs./pack
0.8 µm Yeti 	-	8813Y-PES-8 250 pcs./pack	-	8825Y-PES-8 200 pcs./pack	-	8833Y-PES-8 125 pcs./pack
1.2 µm Yeti 	8804Y-PES-12 200 pcs./pack	8813Y-PES-12 250 pcs./pack	-	8825Y-PES-12 200 pcs./pack	-	8833Y-PES-12 125 pcs./pack

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Erlenmeyer flask

(Product number: borosilicate glass, 100 ml: 50-2603)

- various glass qualities available (Duran® or borosilicate)
- with or without graduation
- various models and volumes



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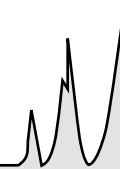
Galileo thermometer with 6 bulbs

(Product number: aluminium bulbs filled with blue liquid: 55-1180)

- various colours available
- height 42 cm
- temperature range + 18°C bis + 28°C
- weight 800 g



HPLC syringe filter










HPLC syringe filter with Mixed Cellulose Ester (MCE) or Cellulose Acetate (CA) membrane

for the filtration of: aqueous samples

low protein-adsorption, hydrophilic membrane

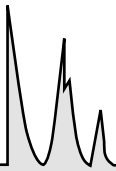
incompatible with: *organic solvents*



Filtration volume	up to 2 ml	up to 10 ml	up to 30 ml	up to 100 ml	up to 150 ml	up to 200 ml
Sample loss	< 15 µl	< 25 µl	< 29 µl	< 50 µl	< 137 µl	< 137 µl
Filter ø	4 mm	13 mm	17 mm	25 mm	30 mm	33 mm
Pore Size Filter Colour / Brand						
0.1 µm Yeti 	-	8813Y-MCE-1 250 pcs./pack	-	8825Y-MCE-1 200 pcs./pack	-	8833Y-MCE-1 125 pcs./pack
0.22 µm Yeti 	8804Y-MCE-2 200 pcs./pack	8813Y-MCE-2 250 pcs./pack	-	8825Y-MCE-2 200 pcs./pack	-	8833Y-MCE-2 125 pcs./pack
0.22 µm Titan	8804-CA-2 100 pcs./pack	-	8817-CA-2 200 pcs./pack	-	8830-CA-2 100 pcs./pack	-
0.45 µm Yeti 	8804Y-MCE-4 200 pcs./pack	8813Y-MCE-4 250 pcs./pack	-	8825Y-MCE-4 200 pcs./pack	-	8833Y-MCE-4 125 pcs./pack
0.45 µm Titan	8804-CA-4 100 pcs./pack	-	8817-CA-4 200 pcs./pack	-	8830-CA-4 100 pcs./pack	-
0.8 µm Yeti 	8804Y-MCE-8 200 pcs./pack	8813Y-MCE-8 250 pcs./pack	-	8825Y-MCE-8 200 pcs./pack	-	8833Y-MCE-8 125 pcs./pack
1.0 µm Yeti 	8804Y-MCE-10 200 pcs./pack	8813Y-MCE-10 250 pcs./pack	-	8825Y-MCE-10 200 pcs./pack	-	8833Y-MCE-10 125 pcs./pack
3.0 µm Yeti 	8804Y-MCE-30 200 pcs./pack	8813Y-MCE-30 250 pcs./pack	-	8825Y-MCE-30 200 pcs./pack	-	8833Y-MCE-30 125 pcs./pack
5.0 µm Yeti 	8804Y-MCE-50 200 pcs./pack	8813Y-MCE-50 250 pcs./pack	-	8825Y-MCE-50 200 pcs./pack	-	8833Y-MCE-50 125 pcs./pack

When ordering Yeti filter please note that:

filters with product numbers printed in blue are available ex stock, subject to prior sale;
other filters have a standard delivery delay of at least 2 weeks.











HPLC syringe filter with Polyvinylidene Difluoride (PVDF) membrane

for the filtration of: alcohol, weak acids, proteins, peptides and other biomolecules

Polyvinylidene Difluoride is a hydrophilic membrane that is suitable for most general biological sample filtration. It has a broad chemical compatibility and is a low protein binder and so a good choice where high protein recovery is required.

incompatible with: strong acids, bases, ketone

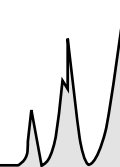


Filtration volume	up to 2 ml	up to 10 ml	up to 30 ml	up to 100 ml	up to 150 ml	up to 200 ml
Sample loss	< 15 µl	< 25 µl	< 29 µl	< 50 µl	< 137 µl	< 137 µl
Filter ø	4 mm	13 mm	17 mm	25 mm	30 mm	33 mm
Pore size Filter colour / brand						
0.1 µm Yeti 	8804Y-PV-1 200 pcs./pack	8813Y-PV-1 250 pcs./pack	-	8825Y-PV-1 200 pcs./pack	-	8833Y-PV-1 125 pcs./pack
0.22 µm Yeti 	8804Y-PV-2 200 pcs./pack	8813Y-PV-2 250 pcs./pack	-	8825Y-PV-2 200 pcs./pack	-	8833Y-PV-2 125 pcs./pack
0.22 µm Titan	8804-PV-2 100 pcs./pack	-	8817-PV-2 200 pcs./pack	-	8830-PV-2 100 pcs./pack	-
0.45 µm Yeti 	8804Y-PV-4 200 pcs./pack	8813Y-PV-4 250 pcs./pack	-	8825Y-PV-4 200 pcs./pack	-	8833Y-PV-4 125 pcs./pack
0.45 µm Titan	8804-PV-4 100 pcs./pack	-	8817-PV-4 200 pcs./pack	-	8830-PV-4 100 pcs./pack	-
0.65 µm Yeti 	-	8813Y-PV-6 250 pcs./pack	-	8825Y-PV-6 200 pcs./pack	-	8833Y-PV-6 125 pcs./pack
1.0 µm Yeti 	-	8813Y-PV-10 250 pcs./pack	-	8825Y-PV-10 200 pcs./pack	-	8833Y-PV-10 125 pcs./pack
2.0 µm Yeti 	-	-	-	-	-	8833Y-PV-20 125 pcs./pack
3.0 µm Yeti 	-	8813Y-PV-30 250 pcs./pack	-	8825Y-PV-30 200 pcs./pack	-	8833Y-PV-30 125 pcs./pack
5.0 µm Yeti 	-	8813Y-PV-50 250 pcs./pack	-	8825Y-PV-50 200 pcs./pack	-	8833Y-PV-50 125 pcs./pack

When ordering Yeti filter please note that:
filters with product numbers printed in blue are available ex stock, subject to prior sale
other filters have a standard delivery delay of at least 2 weeks.
















Polypropylene syringes



Polypropylene syringe with luer slip & luer lock

(G899-PP*/Z = with centric Luer-Slip)

	volume	with luer slip		with luer lock
	1 ml	G899-PP01	-	-
	3 ml	G899-PP03		G899-PP03/LL
	5 ml	G899-PP05 G899-PP05/Z		G899-PP05/LL
	10 ml	G899-PP10 G899-PP10/Z		G899-PP10/LL
	20 ml	G899-PP20		G899-PP20/LL
	30 ml	G899-PP30		G899-PP30/LL
	50 ml	G899-PP50		G899-PP50/LL

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Paper filters 3hw for the laboratory

(Product number: 50-1597)

made of high purity cellulose
wet strength
grade 3hw
for medium to fast filtration
height: 92.5 mm
diameter: 185 mm



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The chemist's coffee maker

(Product number: 57-0023)

Chemistry lifestyle
in the coffee kitchen:
1 laboratory style coffeepot
1 powder funnel made of glass
10 laboratory style folded filters
1 petrid dish
2 laboratory style coffee mugs



Monitoring and Safety by Migration Analytics

In the EU, the standards of the EU regulation 1935/2004 (Article 3)- apply for packaging that comes into direct contact with food. In Switzerland this provision corresponds with Article 49 LGV which says that:

Materials and articles must not transfer their constituents to food in quantities which could:

- endanger human health or
- bring about an unacceptable change in the composition of the food or
- bring about a deterioration in the organoleptic characteristics thereof

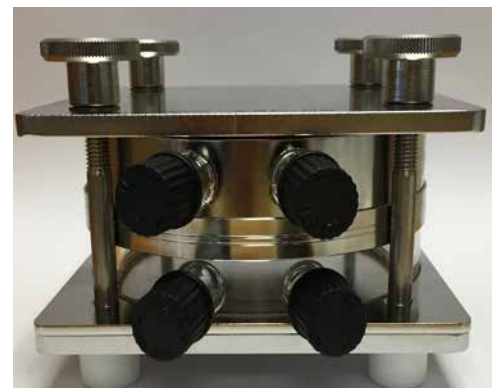
Migration Cell System Sieg-Mi-Flex

The modular and flexible migration cell system Sieg Mi Flex (EN standard 1186-1, EC-Regulation 1935/2004 as well as 10/2011 and 2016/1416) is used for the easy sample preparation for analytical or organoleptic migration testing from substance, "Extractables und Leachables" (E&L) and MOSH/MOAH in food simulants, or pharmaceutical formulations.

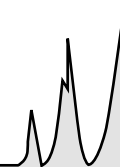
The Migration cell System-Siegwerk is available in different material:

- Stainless steel (VA 1.4571)
- Borosilicate glass and
- PVA coated stainless steel (on request)

- the different material can be combined
- high temperature resistance (-15° to +180°C), pressure-tight up to 9 bar
- may be used for liquid food simulants and test conditions above the boiling point
- quick adaptation to sample areas of different sizes using reduction plates
- may be equipped with 2 packaging samples (top/bottom)
- with 1 test specimen stored lying horizontally; with 2 test specimens stored standing upright
- easily opened and closed thanks to stainless steel knurled nut
- Test setup in sandwich-format possible
- compact space-saving design, horizontal or vertical storage
- the advantage of a migration cell is that the one-sided contact can be simulated without the interference of a cut sample edge or other disturbing effects



Migration-cells

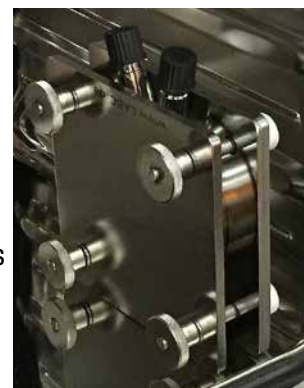


Stainless steel migration cell Sieg-Mi-Flex

- ☛ temperature resistant from -15°C to +180°C
- ☛ pressure-tight up to 9 bar
- ☛ the best selling migration-cell

Stainless steel central ring consisting of:

- ☛ 1x stainless steel centring ring with cast-in and cast-out connecting pieces with GL14 threads
- ☛ 2x FEP/silicone O-rings that fit in the central ring's groove (top and bottom)
- ☛ 2x GL 14 seal caps (PPS housing incl. PTFE/silicone gasket)
- ☛ 1x positioning aid made from 2 mm stainless steel (except DN 120)



Stainless steel fixing plate set consisting of:

- ☛ 1x stainless steel upper plate with holes, polished inside, 140 x 140mm
- ☛ 1x stainless steel lower plate with threaded holes (M8), polished inside, 140 x 140mm
- ☛ 4x stainless steel threaded pins (M8) with knurled nut
- ☛ 4x stainless steel Sieg-Mi-Flex washers
- ☛ 4x PTFE feet, white

Suitable for simulants; A, B, C, D1, D2, Isooctan, Ethanol 95% and alternative simulants which do not chemically attack stainless steel (V4A 1.4571) PTFE / FEP

Stainless steel migration cell	Nominal size	Approx. contact area 1 test specimen / 2 test specimen	Fill volume with 2 test specimens	Product number
Stainless steel fixing plate set				8LZ250-0239899
Central ring	DN120	1.0 / 2.0 dm ²	ca. 200 mL	8LZ250-0235693
Central ring	DN80	0.50 / 1.0 dm ²	ca. 100 mL	8LZ250-0218672
6 additional central ring sizes available (on request)				

Glass migration cell Sieg-Mi-Flex

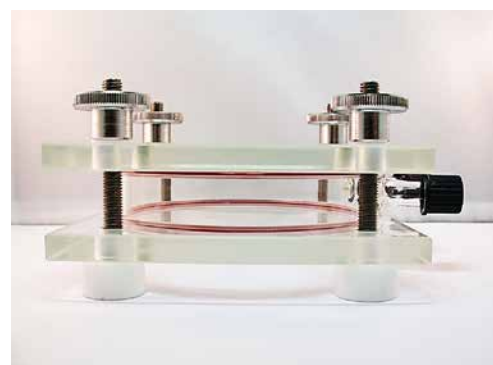
- ☛ temperature resistant from -15°C to +130°C
- ☛ pressure-tight up to 1 bar

Glass Central ring consisting of:

- ☛ 1x borosilicate glass central ring, with cast-in and cast-out fittings with GL14 threads
- ☛ 2x FEP/silicone O-rings that fit in the central ring's groove (top and bottom)
- ☛ 2x GL 14 seal caps (PPS housing incl. PTFE/silicone gasket)

Glass fixing plate set consisting of:

- ☛ 2x borosilicate glass plates with bore holes, protective inserts for screws
- ☛ 4x stainless steel screws (M8) with stainless steel knurled nut
- ☛ 4x PTFE-feet with threads, white (M8)



Glass migration cell	Nominal size	Approx. contact area 1 test specimen / 2 test specimen	Fill volume with 2 test specimens	Product number
Glass fixing plate set				8LZ250-0277594
Glass central ring	DN120	1.0 / 2.0 dm ²	ca. 200 mL	8LZ250-0277600

Combination of stainless steel migration cell Sieg-Mi-Flex with glass central ring

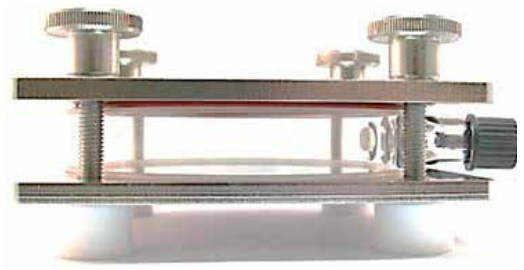
- ☛ temperature resistant from -15°C to +180°C
- ☛ pressure-tight up to 4 bar

Glass central ring consisting of:

- ☛ 1x borosilicate glass central ring, with cast-in and cast-out fittings with GL14 threads
- ☛ 2x FEP/silicone O-rings that fit in the central ring's groove (top and bottom)
- ☛ 2x GL 14 seal caps (PPS housing incl. PTFE/silicone gasket)

Stainless steel fixing plate set consisting of:

- ☛ 1x stainless steel upper plate with threaded holes, polished inside, 140 x 140mm
- ☛ 1x stainless steel lower plate, threaded bore hole (M8), polished inside, 140 x 140mm
- ☛ 4x stainless steel screws (M8) with knurled nut
- ☛ 4x stainless steel washers Sieg-Mi-Flex
- ☛ 4x PTFE-feet, white



Stainless steel migration cell and glass central ring	Nominal size	Approx. contact area 1 test specimen / 2 test specimen	Fill volume with 2 test specimens	Product number
Stainless steel fixing plate set				8LZ250-0239899
Central ring	DN120	1.0 / 2.0 dm ²	ca. 200 mL	8LZ250-0277600

Combination of glass migration cell Sieg-Mi-Flex with stainless steel central ring

- ☛ temperature resistant from -15°C to +180°C
- ☛ pressure tight up to 1 bar

Stainless steel central ring consisting of:

- ☛ 1x Stainless steel central ring, with cast-in and cast-out fittings with GL14 threads
- ☛ 2x FEP/silicone O-rings that fit in the central ring's groove (top and bottom)
- ☛ 2x GL 14 seal caps (PPS housing incl. PTFE/silicone gasket)
- ☛ 1x positioning aid made from 2 mm stainless steel (except DN 120)

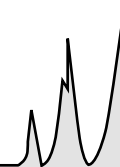


Glass fixing plate set consisting of:

- ☛ 2x Borosilicate glass plates with bore holes, protective inserts for screws
- ☛ 4x Stainless steel screws (M8) with knurled nut
- ☛ 4x PTFE-feet with threads, white (M8)

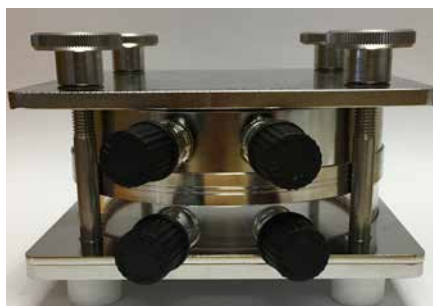
Glass migration cell and stainless steel central ring	Nominal size	Approx. contact area 1 test specimen / 2 test specimen	Fill volume with 2 test specimens	Product number
Glass fixing plate set				8LZ250-0277594
Central ring	DN120	1.0 / 2.0 dm ²	ca. 200 mL	8LZ250-0235693
Central ring	DN80	0.50 / 1.0 dm ²	ca. 100 mL	8LZ250-0218672
6 additional central ring sizes available (on request)				

**This is a summary of the migration cell assortment and its possibilities.
For further information about migration cells please contact us.
We will be happy to discuss the possibilities with you in your laboratory.**



Sandwich arrangement without / with centring ring

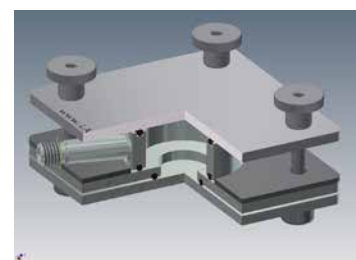
A sandwich arrangement (doubling the reaction chamber to achieve two high density reaction chambers) requires a second central ring and extension screws (grub screws). An optional centring ring and positioning aids are available.



Centring ring	Nominal size	Product number
Centring ring	DN120	8LZ250-0591782
Extension screws (required) 4 pcs. 109 mm		8LZ250-0584258

Reduction plates

The Sieg-Mi-Flex migration cell system includes 8 standard central rings of various sizes. In practice there are test specimens which require a down-sizing of the central ring to match the test specimen precisely. A fast and cost-efficient solution offer the 3 different stainless steel reduction plates which are used with the larger central rings only. It is also possible to use two reduction plates together with a larger central ring.

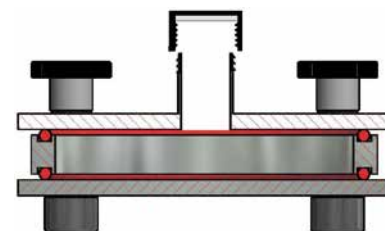


Reduction plates (RP)	Nominal size	Approx. contact area 1 test specimen + RP 2 test specimen + 2 RP	Fill volume with 2 test specimens + 2 reduction plates	Product number
Reduction plate (*only with central ring DN60)	DN50*	0.19 / 0.38 dm ²	ca. 55 ml	8LZ250-0584210
FEP/silicone O-ring DN50	DN50			8LZ250-0584241
2 additional reduction plates sizes available (on request)				

Tenax® / Oil-Kit

- ☛ temperature resistant from -15°C to +180°C
- ☛ pressure-tight up to 1 bar
- ☛ this cell design takes one test specimen (on bottom) and is set up horizontally

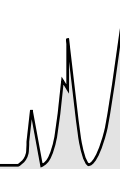
In addition to tests using Tenax®, the Tenax® / Oil-Kit is also used for migration tests with vegetable oil as it may be found it easier to clean the fixing plate with the GL45 fitting in the dishwasher than a central ring with GL14 cast-in and cast-out fittings.



Tenax® / Oil-Kit	Nominal size	Approx. contact area 1 test specimen	Fill volume max.	Product number
Borosilicatglass upper fixing plate with centric GL45 fitting				8LZ250-0649049
Stainless steel central ring	DN120	1 dm ²	ca. 220 mL	8LZ250-0591775
Borosilicate glass central ring	DN120	1 dm ²	ca. 220 mL	8LZ250-0649100
Srew cap GL45, PPS housing incl. PTFE/silicone gasket				8LZ120-0649056

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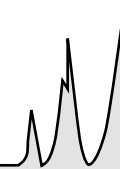
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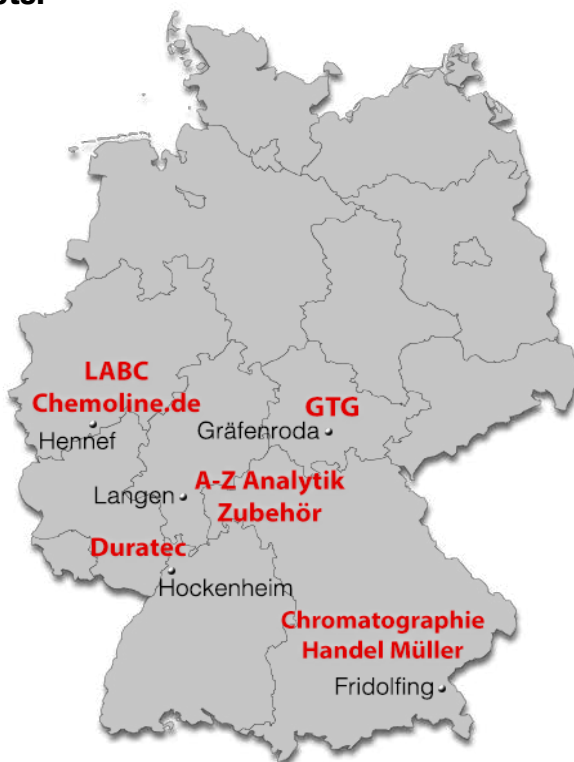
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
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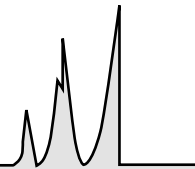
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