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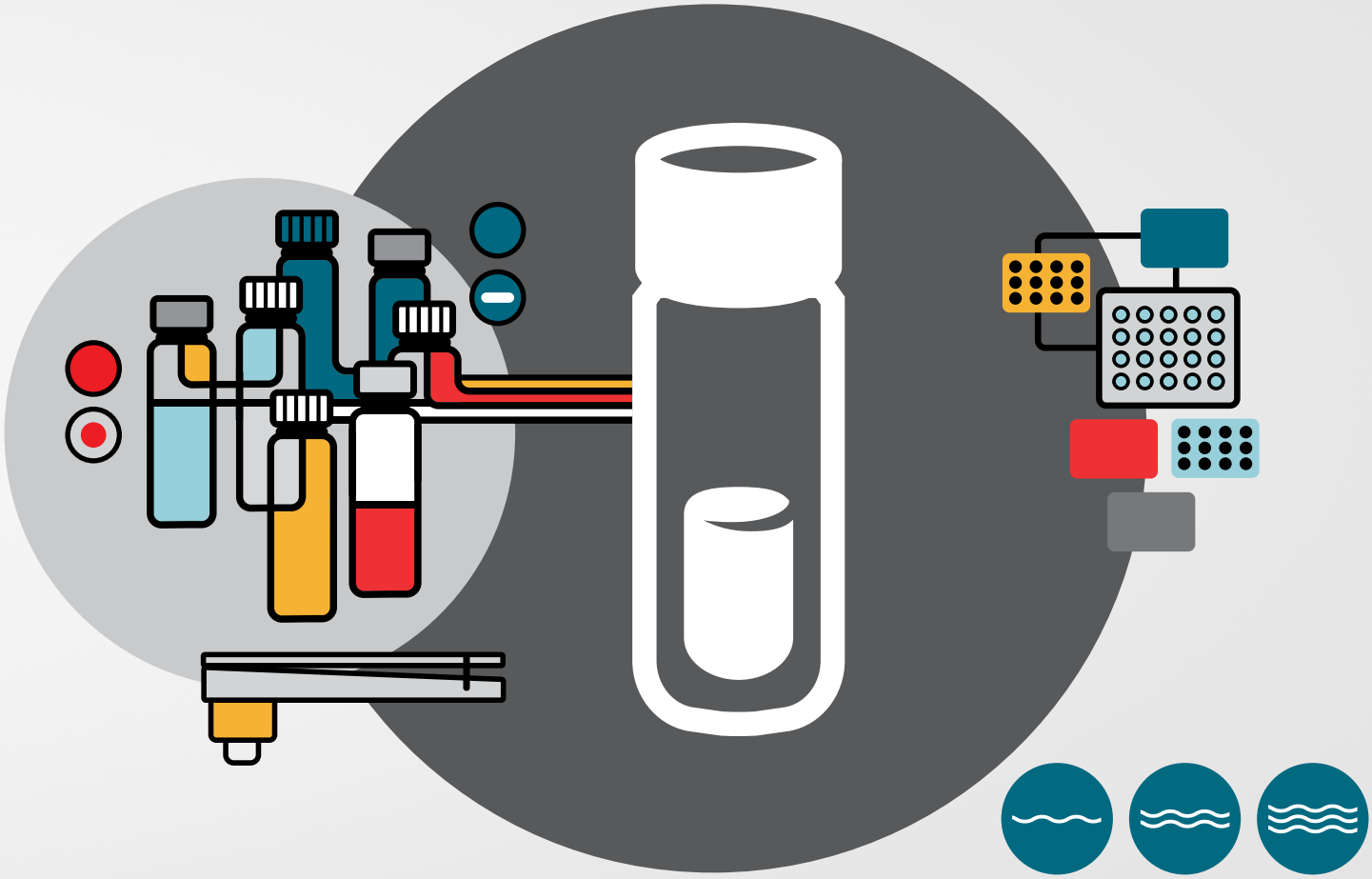

Vials and caps

SureSTART collection

Streamlined choice. Trusted quality

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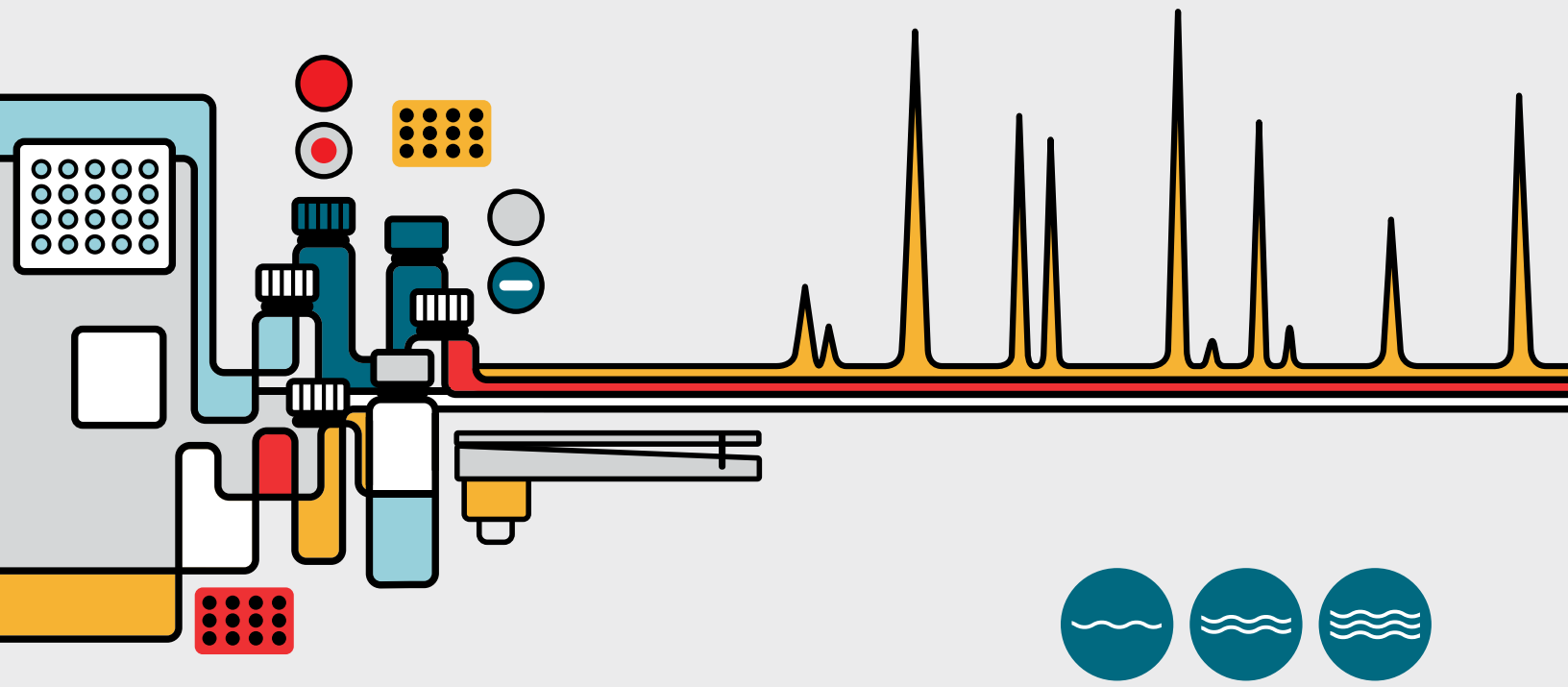


Introduction

Streamlined choice. Trusted quality SureSTART vials, caps, inserts, well plates, mats and accessories

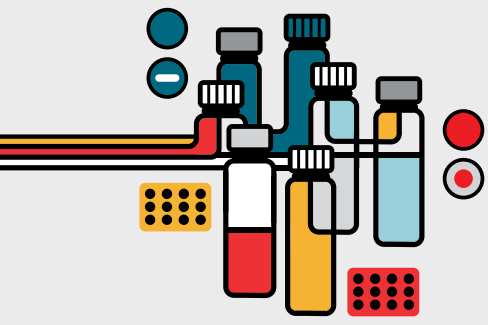
Excellence from start to finish

The Thermo Scientific™ SureSTART™ sample handling collection includes a range of sample storage and analytical vials and well plates previously sold under Thermo Scientific™ National™, Thermo Scientific™ Chromacol™ and Thermo Scientific™ Sun-SRi™ product names.

All these products have been transitioned and absorbed into one collection so we can deliver a first-class product experience to our customers from the moment you start your purchasing journey, to provide you with performance, instrument compatibility, affordability and delivery that you need.

We understand that not every experiment or analyte is the same, and that you need products that can meet your performance and pricing requirements. You can find three different waves on each our our glass vials, making it easier for analysts to select the right products.

With the SureSTART collection, we ensure that no HPLC/UHPLC or GC system gets left behind. Our vials and well plates are suitable for standard instruments from all vendors, streamlining and simplifying your stockroom—and your budget.



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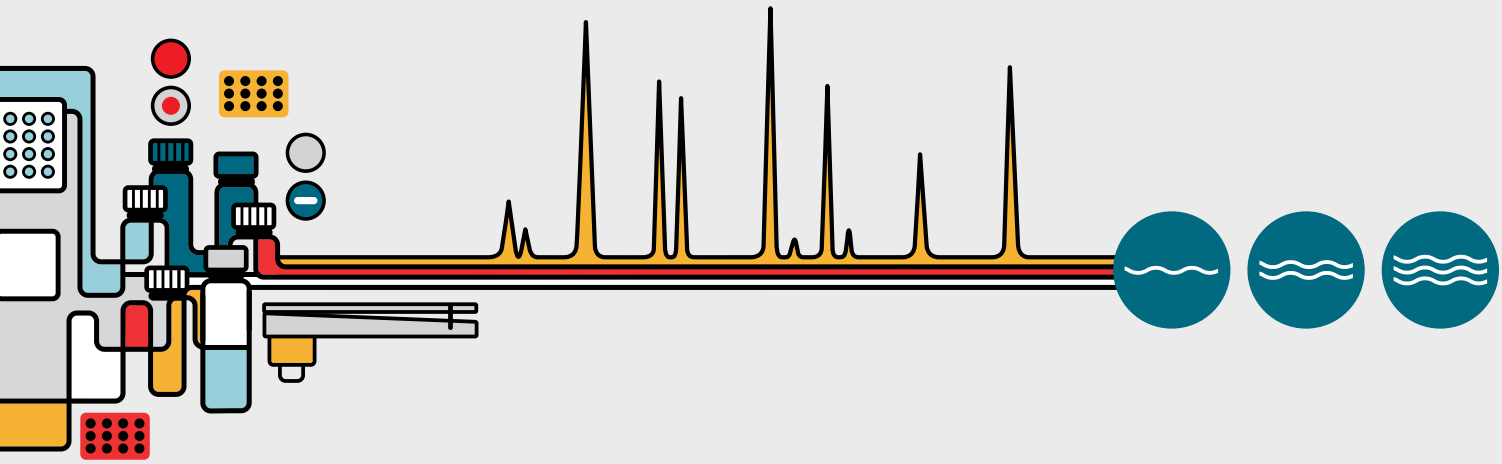
Why choose Thermo Scientific SureSTART collection?

Five main benefits to you		More ways to master your testing
	Assured quality and performance	Need the highest standards of quality and performance? Our SureSTART collection has you covered with the most stringent standards in the marketplace—ensuring that you can meet every regulatory requirement.
	Instrument compatibility	Our collection contains a broad selection of products to provide complete compatibility for add-on and integrated chromatography autosamplers.
	Sample security and low compound adsorption	Protect your samples from being affected by pH shifting, adducting or contamination, and prevent analyte loss from either the cap top or analyte adsorption to the glass surface.
★★★★★	Better product experience	Our SureSTART collection is segmented into three different Performance levels, with visual waves on each glass vial to ensure you always select the right product for your experiment, every time.
	Power to extend your consumables budget	We offer several ways to realize extra value and extend your budget, including built-in bulk discounts—the more you buy, the more you save.

SureSTART Performance levels

Greater choice for what matters most



We are committed to providing a broad selection of solutions for all your chromatography and sample storage requirements.

Our vials and autosampler well plates are consistently manufactured with the lowest levels of extractables and leachables. They are also made from glass that has the lowest compound adsorption, and plastic that is tested and approved for analytical use.

We have the highest level of standards and certification available in the marketplace so that you can obtain highly reproducible data.

Whether you have routine samples, or you need to ensure the highest level of confidence and compliance, our market-leading collection of storage and autosampler vials, well plates and sample handling accessories has everything you will need

One collection. Three performance levels. All from one trusted source.

Want to learn more?

Watch this short video
to learn how two products can support you with improving your results.

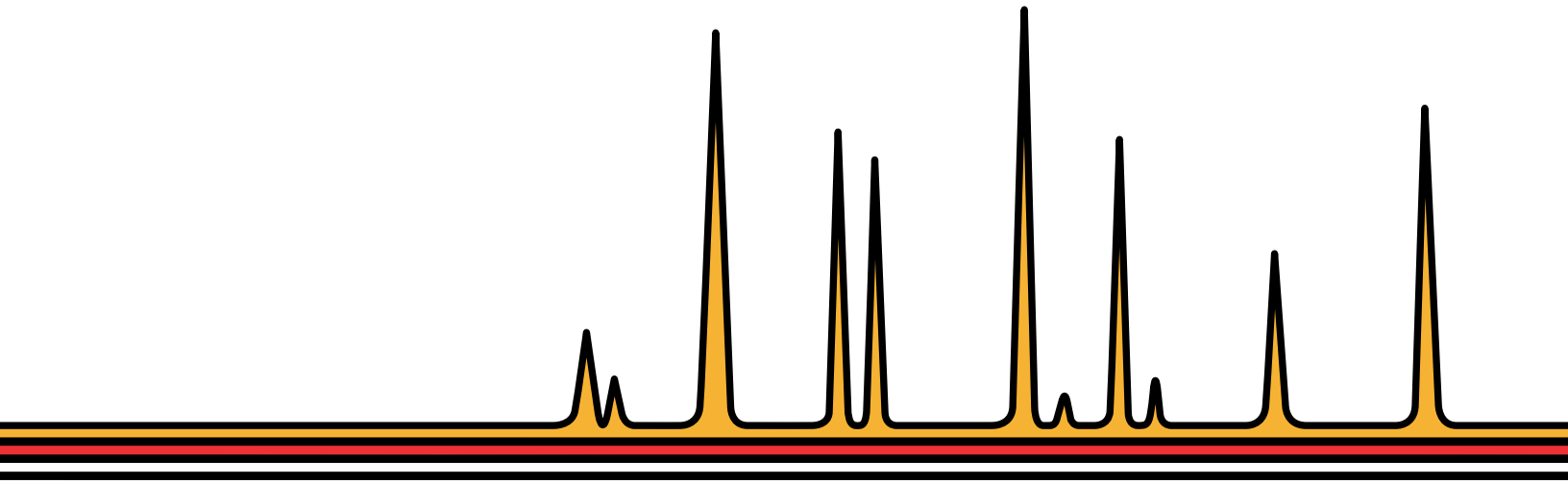
Analytical performance requirements

Products	Detector type	Description
Thermo Scientific™ SureSTART™ Performance level 1 products	Non-MS	Suitable for QA/QC applications using core detectors, *e.g.*, UV/Vis, PDA, RI, ELSD, FLD, FID, NPD, ECD, TCD, or FPD. Compound concentrations are at easily detectable levels.
Thermo Scientific™ SureSTART™ Performance level 2 products	MS	Suitable for routine QA/QC applications using MS technology. Compound concentrations are at easily detectable or low levels of detection.
Thermo Scientific™ SureSTART™ Performance level 3 products	MS	Suitable for challenging applications, and research-focused applications, using MS technology. Compound concentrations are at/near the method detection limit.

Performance level 1
Everyday analysis:
Chromatography approved

Performance level 2
High throughput:
Robust and reproducible

Performance level 3
High performance:
Selective and sensitive



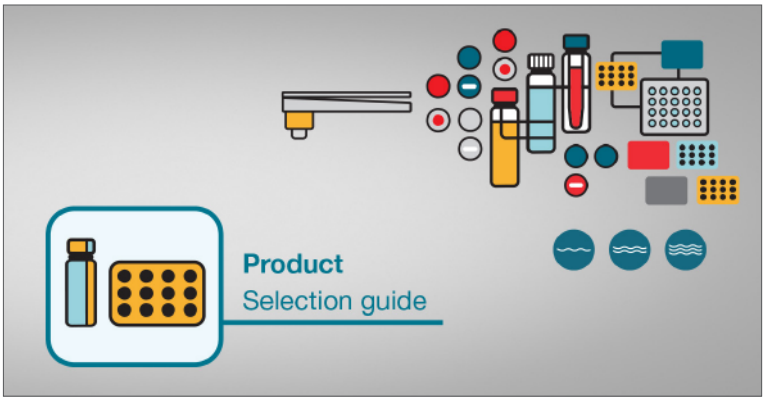
Selection guide for vials and well plates

Which SureSTART product/Performance level is right for you?

There are several factors to consider when choosing a vial or well plate for your application. This section will help guide you through this process to determine which combination is most suitable for your application requirements

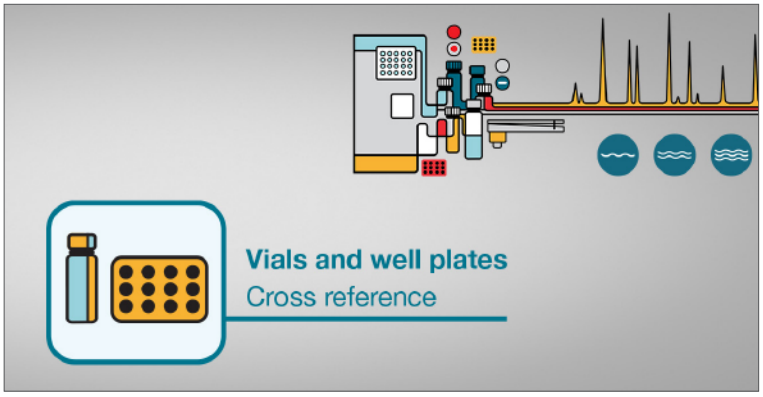
Need a quick answer?

Why not use our online product selector guide that includes our entire SureSTART collection of vials, caps, well plates and mats.



Already purchasing a product?

Let our cross-reference tool find the equivalent SureSTART product/catalog number for you.



Choosing your vials and inserts

The chart below provides a quick guide to selecting the right vial/insert and material for your experimental and application requirements

Performance			Sample volume		
Non-MS Compound levels not challenging	**MS** Compound levels at relatively low levels	**MS** Compound levels near method detection limit or for research analysis	Not sample limited	Volumes vary	Limited
↓	↓	↓	↓	↓	↓
SureSTART Performance level 1 General purpose: chromatography approved	**SureSTART Performance level 2 high-throughput: for applications requiring robust and reproducible results** High-throughput: for applications requiring robust and reproducible results	**SureSTART Performance level 3** High performance: for applications requiring high selectivity and sensitivity	**2 mL vial** SureSTART Performance level 1, 2 and 3	**High recovery vial** **Total recovery vial** SureSTART Performance level 3	**Polyspring insert** (self-aligning) **Pulled insert** (economical choice) **Fused insert vial** **2 mL vial with separate inserts** SureSTART Performance level 2 and 3

Compound polarity			Compound volatility		Compound stability	
Non-polar Mid-polar	Polar	Highly polar	Volatile	Non-volatile	Light-stable	Light-sensitive
↓	↓	↓	↓	↓	↓	↓
Glass vials SureSTART Performance level 1, 2 and 3	***GOLD-grade glass** SureSTART Performance level 3	***Silanized glass vials** ****Polypropylene (PP) vials** **GOLD-grade glass vials and inserts** When low levels of inorganic are required and for solvent stability SureSTART Performance level 1 (PP), 2 and 3 (silanised)	**Crimp top vial** ***SureStop vial** **Screw thread vial** **Headspace vials**	**Screw thread vial** **Snap-It vial** **Crimp top vial**	**Clear vials**	**Amber vials**

*These products can be found in SureSTART Performance level 3
**Not recommended for GC applications

Choosing your septa

The chart below provides a quick guide to selecting the right septa material type for your experimental and application requirements.

Multiple injection?	Temperature?			Thin, fragile needle?	Blunt, thick needle?	Critical analysis?	Low coring?
Good resealability required	–40°C to 120 °C	–40°C to 110 °C	–60°C to 200 °C	Soft and thin septa required	Pre-slit/pre-cut liner as penetration aid (HPLC)	Very clean liner required/ low-extractables	Double-sided PTFE laminated liners required
Silicone/PTFE Natural rubber/ TEF	Natural rubber/ TEF Butyl/PTFE	Red Rubber/ PTFE	Silicone/PTFE	Silicone/PTFE	Silicone/PTFE, pre-slit	Silicone/PTFE	PTFE/silicone/ PTFE

Choosing your well plates and mats

Selecting the perfect Thermo Scientific™ WebSeal™ well plates and mats for your chromatography requirements is easy using our selector tools and resources.

Performance requirements			Compound polarity		Sample availability		
Compound levels not challenging	Compound levels not challenging/ relatively low levels	Compound levels at/near method detection limit	Water and polar	Hydrophobic (e.g., proteins and peptides)	Unlimited	Limited	Very limited
↓	↓	↓	↓	↓	↓	↓	↓
WebSeal Plastic, chromatography tested	**WebSeal certified products** Plastic, MS tested	**WebSeal Plate+** Glass-coated plates **Plate with glass inserts**	**WebSeal plastic and certified**	**WebSeal Plate+** Glass-coated plates **Plate with glass inserts**	**Flat bottom** Where sample volume is high	**U-Bottom** Where sample volume is low	**V-Bottom** Where sample volume is very low

Microtitre: 14-16 mm (also referred to as microwell and standard well plate)
Mid well plate: 20-41 mm
Deep well plate: >44 mm

Autosampler compatibility					
Agilent	CTC (PAL)	Thermo Scientific™ TriPlus RSH*	Shimadzu	Thermo Scientific™ Vanquish™**	Waters ACQUITY
↓	↓	↓	↓	↓	↓
Microtitre plate Mid well plate Deep well plate					**Mid well plate**

*TriPlus RSH with 6-drawer stack can accommodate 24 microtitre 15.5 mm plates microtitre well plate
**Barcoded plates for complete orientation

Examples of microtitre, mid well and deep well plates shown above

Learn more about the well plate terms:

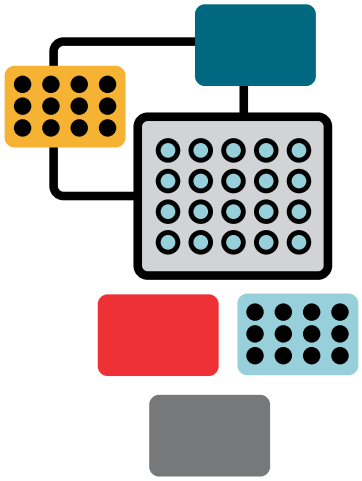
- Microtitre (also known as microwell and standard well plate): 14–16 mm
- Mid well plate: 20–41 mm
- Deep well plate: >44 mm

Certified integrity and consistency

With over 40 years of experience supplying vial and well plates, Thermo Scientific SureSTART certified products are supplied to meet 'critical to quality' specifications, consistently. SureSTART products are produced in compliance with ISO 9001 requirements.

In addition, SureSTART certified products include:

- Glass vials made from First Hydrolytic Type 1 A borosilicate glass, which conforms to U.S Food and Drug Administration (FDA), USP and EU Pharmacopeia standards
- Chemically and thermally resistant well plates are made of the highest quality materials.
- Our autosampler WebSeal wellplates all conform to ANSI SLAS 4-2004 standards.
- In-line opto-electronic testing inspects 100% of all key dimensions
- Our well plates are chromatography tested for solvent compatibility and inertness to ensure your data quality is not compromised
- Packaged in material that has been tested and selected for cleanliness
- Subjected to rigorous end-of-line sampling and quality control procedures to ensure all vials remain within specification
- Most glass vials come with a non-removable write-on patch convenience and ease-of-use
- Patented products, such as Advanced Vial Closure System (AVCS™) caps designed to minimize sample evaporation
- Products produced and/or packed in a clean environment to reduce contamination
- Glass vials which are available deactivated/silanized



Performance level 1: Everyday analysis

Chromatography approved

Meet your chromatographic needs

Choose the right vial for chromatographic analyses. Thermo Scientific SureSTART Performance level 1 products are designed for everyday chromatography analysis. They provide an affordable choice for use with all GC and HPLC/UHPLC instrument types.

If you are verifying compound presence and quantification using detection techniques such as UV/Vis, PDA, RI, ELSD, FLD, FID, NPD, ECD, TCD, or FPD, our Performance level 1 products are the perfect solution for you– select the products with the one wave.

Within Performance level 1 you will find a selection of vials (glass, plastic, <2 mL, 2 mL and headspace) and specification certified convenience kits.

You can also find a great selection of standard and bonded caps to support robotic autosamplers within this Performance level.

Need stoppers? These can also be found within this Performance level.

Vials	Caps
<2 mL polypropylene screw microvials	9 mm screw caps
2 mL glass screw vials	
2 mL glass crimp vials	11 mm crimp caps
<2 mL polypropylene snap microvials	11 mm snap caps
Plastic inserts	—
20 mL glass crimp headspace vials	20 mm crimp caps
20 mm stopper	—
Specification certified kits	—
Storage	—

Performance level 1

for everyday analyses

- Packaged in material that has been tested and selected for cleanliness
- All products within this performance level are suitable for use with GC and HPLC/UHPLC
- Headspace vials and caps available in 20 mL options
- Vials are identified by one wave and a convenient write-on patch as standard
- Vials and caps available as screw, snap and crimp
- Vials available as clear or amber glass and as either glass or plastic
- Vial volume sizes ranging from 0.3 mL to 20 mL covering limited sample volumes to headspace analyses
- Caps come in a choice of polypropylene, aluminium and magnetic steel caps with silicone/PTFE, rubber/TEF, or butyl/PTFE septa
- Use Thermo Scientific™ manual or electronic crimpers and decrimpers for easy application and removal of crimp caps
- Buy vials and caps in bulk for greater savings

Specification certified

- All Thermo Scientific SureSTART vials are dimensionally verified to ensure autosampler compatibility
- Automated optical and gauge inspection to ensure critical dimensions and tolerances
- Vials meet all relevant requirements of US, EU, JPN Pharmacopia
- Uniform and defect-free

Lot traceable

- 100% traceable through the manufacturing process
- Certificate of Conformance available by lot number upon request

Screw vials and associated caps
(<2 mL – 2 mL vials, 9 mm caps)

<2 mL polypropylene screw microvials

Performance level 1 for everyday analysis

Description

- Short thread screw
- 12 mm × 32 mm (diameter × height)
- No marking spot
- Specification certified

For use with 9 mm screw caps, or 9 mm AVCS screw caps

Vial color and material	Clear plastic	Clear plastic
Total volume	0.4 mL	1.5 mL
Usable volume	0.3 mL	1 mL
Residual volume	4 µL	170 µL
Ordering information	Cat. no.	Cat. no.
100/pack	6ESV9-04PP	6ESV9-1PP
10 x 100/pack	6ESV9-04PPT	6ESV9-1PPT
50 x 100/pack	6ESV9-04PPF	6ESV9-1PPF

Screw vials and associated caps Continued
(<2 mL – 2 mL vials, 9 mm caps)

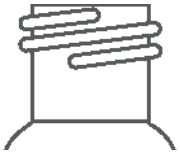
2 mL glass screw vials

Performance level 1 for everyday analysis

Description

- Short thread screw
- 12 mm × 32 mm (diameter × height) flat bottom base
- Marking spot
- Specification certified

For use with 9 mm screw caps, or 9 mm AVCS screw caps



Vial color and material	Clear glass	Amber glass
Total volume	2 mL	
Usable volume	1.5 mL	
Residual volume	170 µL	
Ordering information	**Cat. no.**	**Cat. no.**
100/pack	CHSV9-10P	CHSV9-20P
10 x 100/pack	CHSV9-10PT	CHSV9-20PT
50 x 100/pack	CHSV9-10PF	CHSV9-20PF

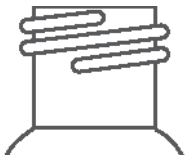
Screw vials and associated caps Continued
(<2 mL – 2 mL vials, 9 mm caps)

9 mm screw caps
Performance level 1 for everyday analysis

Description

- Short thread screw
- 9 mm
- Specification certified

For use with <2 mL and 2 mL screw vials



Cap color and material	–	–	–	–	Bonded	Bonded	Bonded
	–	–	–	Pre-slit septa	–	Pre-slit septa	Pre-slit septa
	Blue polypropylene						
Septum color and material	Red natural rubber/clear TEF	Red silicone/ ivory PTFE	White silicone/ red PTFE	White silicone/ blue PTFE	White silicone/ white PTFE	White silicone/ white PTFE	White silicone/ red PTFE
Septum thickness	1 mm						
Septum hardness	60 shore	45 shore	55 shore	55 shore	45 shore	45 shore	45 shore
Ordering information	**Cat. no.**	**Cat. no.**	**Cat. no.**	**Cat. no.**	**Cat. no.**	**Cat. no.**	**Cat. no.**
100/pack	CHSC9-10	CHSC9-20	CHSC9-30	CHSC9-40	CHSC9-35UB	CHSC9-35UBS	CHSC9-30UBS
10 x 100/pack	CHSC9-10T	CHSC9-20T	CHSC9-30T	CHSC9-40T	CHSC9-35UBT	CHSC9-35UBST	—
50 x 100/pack	CHSC9-10F	CHSC9-20F	CHSC9-30F	CHSC9-40F	CHSC9-35UBF	CHSC9-35UBST	—

Crimp vials and associated caps
(2 mL, 11 mm caps)

Seal these crimp vials with 11 mm aluminium crimp caps and septa using a manual or electronic crimper tool.

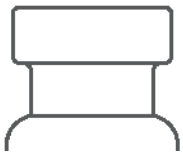
2 mL glass crimp vials

Performance level 1 for everyday analysis

Description

- Crimp closure (11 mm)
- 12 mm × 32 mm (diameter × height) flat bottom base
- Marking spot
- Specification certified

For use with 11 mm crimp caps



Vial color and material	Clear glass	Amber glass
Total volume	2 mL	
Usable volume	1.5 mL	
Residual volume	170 µL	
Ordering information	**Cat. no.**	**Cat. no.**
100/pack	CHCV11-10P	CHCV11-20P
10 x 100/pack	CHCV11-10PT	CHCV11-20PT
50 x 100/pack	CHCV11-10PF	CHCV11-20PF

Crimp vials and associated caps Continued
(2 mL, 11 mm caps)

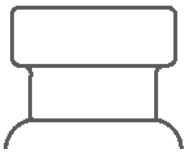
11 mm crimp caps

Performance level 1 for everyday analysis

Description

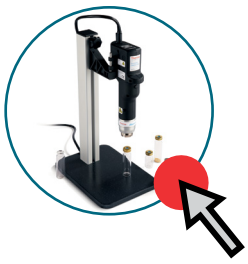
- Crimp closure (11 mm)
- Specification certified

For use with <2 mL and 2 mL crimp vials, or <2 mL and 2 mL snap vials
Use with 11 mm crimpers and decrimpers



Cap color and material	Silver aluminium	
Septum color and material	Natural rubber/clear TEF	White silicone/red PTFE
Septum thickness	1 mm	1.3 mm
Septum hardness	60 shore	45 shore
Ordering information	Cat. no.	Cat. no.
100/pack	CHCC11-10	CHCC11-30
10 x 100/pack	CHCC11-10T	CHCC11-30T
50 x 100/pack	CHCC11-10F	CHCC11-30F

Learn more about:
Manual and electronic crimpers and decrimpers



Snap vials and associated caps
(<2 mL vials, 11 mm caps)

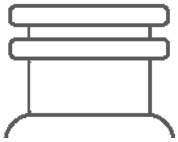
<2 mL polypropylene snap microvials

Performance level 1 for everyday analysis

Description

- Snap (11 mm)
- 12 mm × 32 mm (diameter × height)
- No marking spot
- Specification certified

For use with 11 mm snap caps



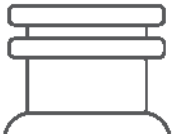
Vial color and material	Clear polypropylene		
	Conical	Conical	Flat bottom
Total volume	0.3 mL	0.8 mL	1.0 mL
Usable volume	0.2 mL	0.6 mL	0.8 mL
Residual volume	4 µL	6 µL	80 µL
Ordering information	**Cat. no.**	**Cat. no.**	**Cat. no.**
100/pack	6ERV11-03PPC	6ERV11-08PPC	6ERV11-08PPFB
10 x 100/pack	6ERV11-03PPCT	6ERV11-08PPCT	6ERV11-08PPFBT
50 x 100/pack	6ERV11-03PPCF	6ERV11-08PPCF	6ERV11-08PPFBF

Snap vials and associated caps Continued
(<2 mL vials, 11 mm caps)

11 mm snap caps

Performance level 1 for everyday analysis

Description
• Snap closure (11 mm) • Specification certified • Does not re-seal after puncture
For use with <2 mL and 2 mL snap vials



Cap color and material	Blue polyethylene snap cap with integral PE membrane	Clear polyethylene snap cap with integral PE membrane
	Membrane thickness 0.5 mm	
Septum color and material	This cap comes with no septa	This cap comes with no septa
Septum thickness		
Septum hardness		
Ordering information	**Cat. no.**	**Cat. no.**
100/pack	6ERC11PE	6ERC11PEC

Plastic inserts
(2 mL vials)

Need more information about which insert is most suitable for you?

Watch this short video

Plastic inserts for 2 mL vials

Performance level 1 for everyday analysis

Description

- 6 mm × 31 mm (diameter × height) (size × height) conical with polyspring base
- No marking spot but filling lines
- Specification certified

For use with 2 mL screw vials, 2 mL snap vials or 2 mL crimp vials

Insert color and material	Clear polypropylene with clear polyprolyene polyspring
Total volume	0.30 mL
Usable volume	0.25 mL
Residual volume	4 µL
Ordering information	**Cat. no.**
100/pack	6EME03CPPSP
10 x 100/pack	6EME03CPPSPT
50 x 100/pack	6EME03CPPSPF

Learn more about:

2 mL glass screw vials

2 mL glass crimp vials

2 mL glass snap vials

Headspace vials and associated caps
(20 mL vials, 20 mm caps)

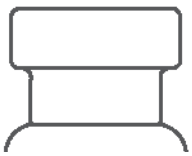
20 mL glass crimp headspace vials

Performance level 1 for everyday analysis

Description

- Crimp
- 22.5 mm × 75.5 mm (diameter × height) square rim, round bottom base
- Marking spot
- Specification certified

For use with 20 mm crimp caps



Vial color and material	Clear glass
Total volume	20 mL
Usable volume	18 mL
Residual volume	0.8 mL
Ordering information	**Cat. no.**
100/pack	CHCV20-14
10 x 100/pack	CHCV20-14T

Headspace vials and associated caps Continued
(20 mL vials, 20 mm caps)

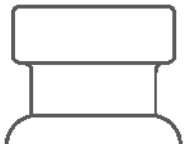
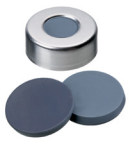
20 mm crimp caps

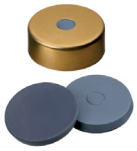
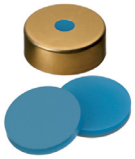
Performance level 1 for everyday analysis

Description

- Crimp closure (20 mm)
- Specification certified

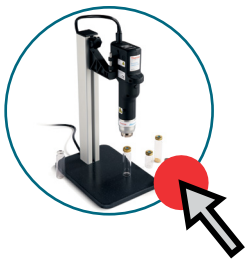
For use with 10 mL and 20 mL crimp headspace vials (with diameter neck size of 20 mm)
Use with 20 mm crimpers and decrimpers

Cap color and material	Silver aluminium	Silver aluminium	Silver aluminium	Gold magnetic steel	Gold magnetic steel
Septum color and material	Molded	–	–	Molded	–
	Grey butyl/ grey PTFE	Blue silicone/ white PTFE	–	Grey butyl/ grey PTFE	Blue transparent silicone/clear PTFE
Septum thickness	3 mm	3 mm	–	3 mm	3 mm
Septum hardness	50 shore	45 shore	–	50 shore	45 shore
Ordering information	**Cat. no.**	**Cat. no.**	**Cat. no.**	**Cat. no.**	**Cat. no.**
100/pack	CHCC20-1	CHCC20-2	–	CHCC20-1M	CHCC20-2M
10 x 100/pack	CHCC20-1T	CHCC20-2T	6ECC20OT	CHCC20-1MT	CHCC20-2MT
50 x 100/pack	CHCC20-1F	CHCC20-2F	–	CHCC20-1MF	CHCC20-2MF

Learn more about:
Manual and electronic crimpers and decrimpers



20 mm stopper

Performance level 1 for everyday analysis

Description

- Specification certified

For use with vials (e.g. 10 mL/20 mL crimp vials) with diameter neck size of 20 mm

Product description	Stopper (20 mm)
Color and material	Grey bromobutyl
Septum thickness	3 mm
Septum hardness	45 shore
Ordering information	**Cat. no.**
100/pack	CHBS-20
10 x 100/pack	CHBS-20T
50 x 100/pack	CHBS-20F

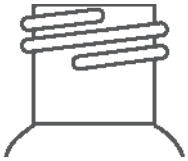
Specification certified kits

Specification certified shell, screw vial and cap kits

Performance level 1 for everyday analysis

Description

- Screw
- 9 mm short thread
- Specification certified



Vial color and material	Clear propylene	Clear propylene	Clear propylene
Vial total volume	0.4 mL	0.4 mL	1.25 mL
Cap color and material	White silicone	Blue propylene	Lamela plug
Septum color and material	Blue PTFE	White silicone/blue PTFE	—
Ordering information	**Cat. no.**	**Cat. no.**	**Cat. no.**
100/pack	6EKPP97	6EKPP87	–
200/pack	–	–	6EKSHV8

Vial rack

Performance level 1 for everyday analysis

Description

- For 12 × 32 mm vials
- 50 cavities (5 x 10)
- No lid, reusable 20 x 10.5 x 2.2 cm

Use with 2 mm vials

Product description	Vial rack
Color and material	Blue polypropylene
Ordering information	**Cat. no.**
1/pack	6EVR1232B

Performance level 2: High-throughput analysis

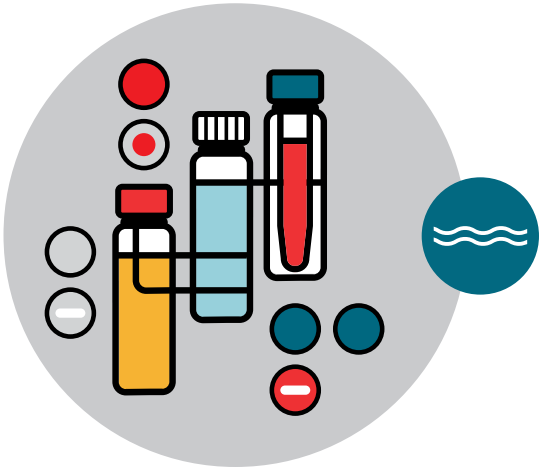
When robustness and reproducibility are key

Be compliant-ready for your high-throughput samples in regulated environments

Choose Thermo Scientific SureSTART Performance level 2 products, to ensure high quality data with an uninterrupted workflow in high throughput applications using GC, HPLC/UHPLC, single or triple quadrupole MS systems. Use these Performance level 2 vials for routine QA/QC applications, where the analyte levels are achievable or close to the method detection level. These products have very low metal content and extractables and leachables and conform to high standards so that you can meet your regulatory requirements. They are specification certified to ensure their physical dimensions and autosampler compatibility.

If you need products that support routine analyses, our Performance level 2 products are here for you. Select the products with the two waves.

Within Performance level 2 you will find a selection of kits (including our range of U.S. Environmental Protection Agency (EPA) and Scintillation), vials, caps, inserts, septa and stoppers.



Performance level 2
for high-throughput applications

- All products within this Performance level are suitable for GC, HPLC/UHPLC, and mass spectrometry (MS) applications
- Volume sizes ranging from 0.3 mL to 20 mL covering limited sample volumes to headspace analyses
- Headspace vials and caps available from 10 mL – 20 mL
- Vials are identified by two waves and a convenient write-on patch as standard
- Vials available as screw, snap and crimp
- Vials available in glass, silanized glass and plastic
- Vials available as clear or amber glass
- Caps available as screw, screw AVCS, snap and crimp
- Use Thermo Scientific manual or electronic crimpers and decrimpers for easy application and removal of crimp caps
- EPA, scintillation and specification certified kits can be found within Performance level 2
- Buy vials and caps in bulk for greater savings

Specification certified

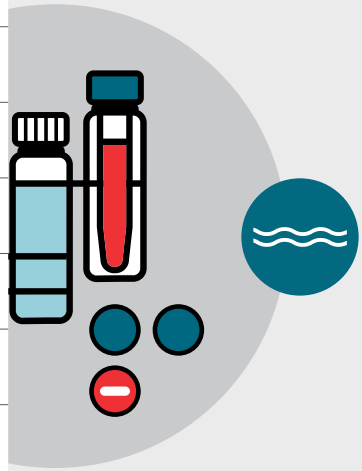
- All Thermo Scientific SureSTART vials are dimensionally verified to ensure autosampler compatibility
- Inspected by automated optical and gauge inspection to ensure critical dimensions and tolerances
- Vials meet all requirements of US, EU, JPN Pharmacopia
- Uniform and defect-free

Lot traceable

- 100% traceable through the manufacturing process
- Certificate of Conformance available by lot number upon request

Performance level 2:
High-throughput analysis

Vials	Caps
0.7 mL glass crimp vials	8 mm crimp caps
1.7 mL high-recovery glass screw vials	9 mm screw caps
2 mL glass screw vials	
2 mL glass crimp vials	11 mm crimp caps
2 mL glass snap vials	11 mm snap caps 11 mm crimp caps
Inserts for 2 mL vials	—
4 mL glass screw vials	13 mm screw caps
8 mL glass screw vials	15 mm screw caps
10 mL glass screw headspace vials	18 mm screw caps
10 mL glass crimp headspace vials	20 mm crimp caps
12 mL glass screw vials	15 mm screw caps
20 mL glass screw vials	18 mm screw caps
20 mL glass crimp headspace vials	20 mm crimp caps
20 mm stoppers and septa	
40 mL glass screw vials	24 mm screw caps
Kits	
Specification certified	
EPA	



Screw vials and associated caps
(<2 mL – 2 mL vials, 8 mm caps)

0.7 mL glass crimp microvials for <2 mL samples

Performance level 2 for high-throughput applications

Description

- Crimp
- Conical base
- Specification certified

For use with 8 mm crimp caps

Vial color and material	Amber glass
Total volume	0.7 mL
Usable volume	1.0 mL
Residual volume	–
Ordering information	Cat. no.
100/pack	6ACV8-07C2

Screw vials and associated caps Continued
(<2 mL – 2 mL vials, 9 mm caps)

1.7 mL high-recovery glass screw microvials for <2 mL samples

Performance level 2 for high-throughput applications

Description

- Short thread screw
- 12 mm × 32 mm (diameter × height) inner V-bottom base
- Marking spot
- Specification certified

For use with 9 mm screw caps, or 9 mm AVCS screw caps

Vial color and material	Clear glass
Total volume	1.7 mL
Usable volume	1.3 mL
Residual volume	4 µL
Ordering information	**Cat. no.**
100/pack	6ASV9-V1
10 x 100/pack	6ASV9-V1T
50 x 100/pack	6ASV9-V1F

Screw vials and associated caps Continued
(<2 mL – 2 mL vials, 9 mm caps)

2 mL glass screw vials
Performance level 2 for high-throughput applications

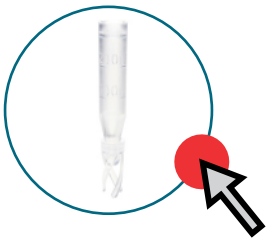
Description

- Short thread screw
- 12 mm × 32 mm (diameter × height) flat bottom base
- Marking spot
- Specification certified

For use with 9 mm screw caps, or 9 mm AVCS screw caps

Vial color and material	Clear glass	Amber glass	Amber glass, silanized
Total volume	2.0 mL		
Usable volume	1.5 mL		
Residual volume	170 µL		
Ordering information	**Cat. no.**	**Cat. no.**	**Cat. no.**
100/pack	6ASV9-1P	6ASV9-2P	6ASV9-S2P
10 x 100/pack	6ASV9-1PT	6ASV9-2PT	–
50 x 100/pack	6ASV9-1PF	6ASV9-2PF	–

Need a smaller volume?
Why not use with our polyspring glass inserts



Screw vials and associated caps Continued
(<2 mL – 2 mL vials, 9 mm caps)

9 mm AVCS screw caps

Performance level 2 for high-throughput applications

Description

- Short thread screw
- 9 mm
- Specification certified
- AVCS screw top technology

For use with <2 mL and 2 mL screw vials

Cap components	–	Bonded	Bonded	–	–	–
	–	Pre-slit	–	–	–	–
Cap color and material	Blue polypropylene				Red polypropylene	
Septum color and material	White silicone/ red PTFE	White silicone/ beige PTFE	White silicone/ beige PTFE	Red rubber/ ivory PTFE	White silicone/ red PTFE	Red rubber/ ivory PTFE (RedRubber)
Septum thickness	1 mm					
Septum hardness	45 shore	45 shore	45 shore	45 shore	45 shore	45 shore
Ordering information	**Cat. no.**	**Cat. no.**	**Cat. no.**	**Cat. no.**	**Cat. no.**	**Cat. no.**
100/pack	6ASC9ST1	6ASC9STBS1	6ASC9STB1	6ASC9RT1	6ASC9ST1R	6ASC9RT1R
10 x 100/pack	6ASC9ST1T	6ASC9STBS1T	6ASC9STB1T	6ASC9RT1T	6ASC9ST1RT	6ASC9RT1RT
50 x 100/pack	6ASC9ST1F	6ASC9STBS1F	6ASC9STB1F	6ASC9RT1F	6ASC9ST1RF	6ASC9RT1RF

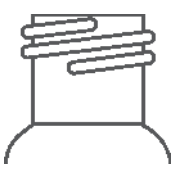
Screw vials and associated caps Continued
(<2 mL – 2 mL vials, 9 mm caps)

9 mm AVCS screw caps
Performance level 2 for high-throughput applications

Description

- Short thread screw
- 9 mm
- Specification certified
- AVCS screw top technology

For use with <2 mL and 2 mL screw vials



Cap components	Close top cap	–	–	–	–	–	–
	–	–	–	–	–	–	–
Cap color and material	Blue polypropylene	Black polypropylene	Black polypropylene	Green polypropylene	Green polypropylene	Yellow polypropylene	Yellow polypropylene
Septum color and material	Red rubber/ ivory PTFE (RedRubber)	White silicone/ red PTFE	Red rubber/ ivory PTFE (RedRubber)	White silicone/ red PTFE	Red rubber/ ivory PTFE (RedRubber)	White silicone/ red PTFE	Red rubber/ ivory PTFE (RedRubber)
Septum thickness	1 mm						
Septum hardness	45 shore	45 shore	45 shore	45 shore	45 shore	45 shore	45 shore
Ordering information	**Cat. no.**	**Cat. no.**	**Cat. no.**	**Cat. no.**	**Cat. no.**	**Cat. no.**	**Cat. no.**
100/pack	6ASC9CTRRT1	6ASC9ST1B	6ASC9RT1B	6ASC9ST1G	6ASC9RT1G	6ASC9ST1Y	6ASC9RT1Y

Crimp vials and associated caps
(2 mL vials, 11 mm caps)

2 mL glass crimp vials

Performance level 2 for high-throughput applications

Description

- Crimp
- 12 mm × 32 mm (diameter × height) flat bottom base
- Marking spot
- Specification certified

For use with 11 mm crimp caps, or 11 mm snap caps

Vial color and material	Clear glass	Amber glass
Total volume	2 mL	
Usable volume	1.7 mL	
Residual volume	170 µL	
Ordering information	**Cat. no.**	**Cat. no.**
100/pack	6ACV11-1P	6ACV11-2P
10 x 100/pack	6ACV11-1PT	6ACV11-2PT
50 x 100/pack	6ACV11-1PF	6ACV11-2PF

Crimp vials and associated caps Continued
(2 mL vials, 11 mm caps)

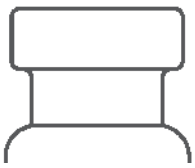
11 mm crimp caps

Performance level 2 for high-throughput applications

Description

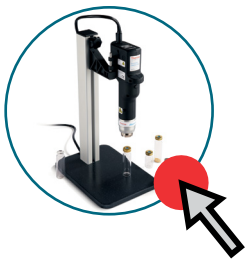
- Crimp closure (11 mm)
- Specification certified

For use with <2 mL – 2 mL crimp vials, or <2 mL – 2 mL snap vials
Use with 11 mm crimpers and decrimpers



Cap color and material	Silver aluminium closure	
Septum color and material	White silicone/red PTFE	Red rubber/clear PTFE
Septum thickness	1 mm	
Septum hardness	45 shore	60 shore
Ordering information	**Cat. no.**	**Cat. no.**
100/pack	6ACC11ST1	6ACC11RT1
10 x 100/pack	6ACC11ST1T	6ACC11RT1T
50 x 100/pack	6ACC11ST1F	6ACC11RT1F

Learn more about:
Manual and electronic crimpers and decrimpers



Snap vials and associated caps
(2 mL vials, 11 mm caps)

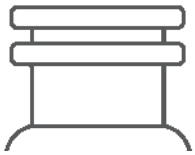
2 mL glass snap vials

Performance level 2 for high-throughput applications

Description

- Snap
- 12 mm × 32 mm (diameter × height) flat bottom base
- Marking spot
- Specification certified

For use with 11 mm snap caps or 11 mm crimp caps



Vial color and material	Clear glass	Amber glass
Total volume	2 mL	
Usable volume	1.7 mL	
Residual volume	170 µL	
Ordering information		
100/pack	6ARV11-1P	6ARV11-2P
10 x 100/pack	6ARV11-1PT	6ARV11-2PT
50 x 100/pack	6ARV11-1PF	6ARV11-2PF

Need a smaller volume?
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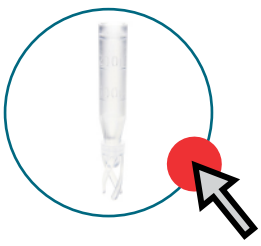


Snap vials and associated caps Continued
(2 mL vials, 11 mm caps)

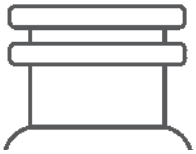
11 mm snap caps

Performance level 2 for high-throughput applications

Description

- Snap closure (11 mm)
- Specification certified

For use with 11 mm glass or plastic snap vials



Cap color and material	Blue polyethylene	Blue polyethylene	Red polyethylene	Red polyethylene
Septum color and material	White silicone/ red PTFE	Natural rubber/ clear TEF	White silicone/ red PTFE	Natural rubber/ clear TEF
Septum thickness	1 mm			
Septum hardness	45 shore	60 shore	55 shore	60 shore
Ordering information	**Cat. no.**	**Cat. no.**	**Cat. no.**	**Cat. no.**
100/pack	6ARC11ST1	6ARC11NRT1	6ARC11ST1R	6ARC11NRT1R
10 x 100/pack	6ARC11ST1T	6ARC11NRT1T	6ARC11ST1RT	6ARC11NRT1RT
50 x 100/pack	6ARC11ST1F	6ARC11NRT1F	6ARC11ST1RF	6ARC11NRT1RF

Snap vials and associated caps Continued
(2 mL vials, 11 mm caps)

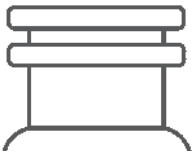
11 mm snap caps

Performance level 2 for high-throughput applications

Description

- Snap closure (11 mm)
- Specification certified

For use with 11 mm glass or plastic snap vials



Cap color and material	Clear polyethylene	Clear polyethylene	Red polyethylene	Red polyethylene	Orange polyethylene	Clear polyethylene	Blue polyethylene
Septum color and material	Red silicone rubber/ clear PTFE	White silicone/ red PTFE	White silicone/ red PTFE	White silicone/ red PTFE	White silicone/ red PTFE	White virgin PTFE	Red silicone rubber/clear PTFE
Septum thickness	1 mm						
Septum hardness	45 shore	60 shore	55 shore	60 shore	60 shore	53 shore	60 shore
Ordering information	**Cat. no.**	**Cat. no.**	**Cat. no.**	**Cat. no.**	**Cat. no.**	**Cat. no.**	**Cat. no.**
100/pack	6ARC11RRT1C	6ARC11ST1C	6ARC11ST1B	6ARC11ST1OR	-	6ARC11-P	6ARC11RRT1
1000/pack	-	-	-	-	6ARC11ST1ORT	-	-

Screw vials and associated caps
(4 mL vials, 13 mm caps)

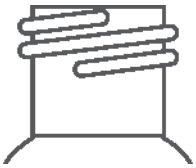
4 mL glass screw vials

Performance level 2 for high-throughput applications

Description

- Screw
- 15 × 45 mm (diameter × height) flat base
- Specification certified

For use with 13 mm screw caps



Vial color and material	Clear glass	Amber glass
Total volume	4.0 mL	
Usable volume	3.5 mL	
Residual volume	800 µL	
Ordering information	Cat. no.	Cat. no.
100/pack	6ASV13-1P	6ASV13-2P

Screw vials and associated caps Continued
(4 mL vials, 13 mm caps)

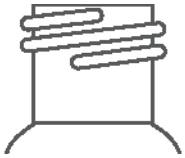
13 mm screw caps

Performance level 2 for high-throughput applications

Description

- Short thread screw closure (13 mm/13-425)
- Specification certified

For use with 4 mL screw vials (and other vials with screw 13 mm dimensions)



Cap color and material	-	Pre-slit septa	-
	Black polypropylene	White polypropylene	White polyurethane
Septum color and material	White silicone/red PTFE	White silicone/blue PTFE	White UR 13-425 PE foam/ PTFE close top
Septum thickness	1.5 mm		
Septum hardness	55 shore	45 shore	75 shore
Ordering information	Cat. no.	Cat. no.	Cat. no.
100/pack	6ASC13ST15	6PSC13STS15W	6ASC13-CTP

Headspace screw vials and associated caps
(10 mL vials, 18 mm caps)

10 mL glass screw headspace vials

Performance level 2 for high-throughput applications

Description

- Screw
- 22.5 mm × 46 mm (diameter × height) round bottom base
- Marking spot
- Specification certified

For use with 18 mm screw caps

Vial color and material	Clear glass	Amber glass
Total volume	10 mL	10 mL
Usable volume	8 mL	8 mL
Residual volume	0.8 mL	0.8 mL
Ordering information	**Cat. no.**	**Cat. no.**
100/pack	6ASV10-1	6ASV10-2
10 x 100/pack	6ASV10-1T	6ASV10-2T
50 x 100/pack	6ASV10-1F	6ASV10-2F

Headspace screw vials and associated caps Continued
(20 mL vials, 18 mm caps)

20 mL glass screw headspace vials

Performance level 2 for high-throughput applications

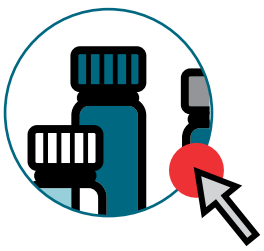
Description

- Screw
- 22.5 mm × 75.5 mm (diameter × height) round bottom base
- Marking spot
- Specification certified

For use with 18 mm screw caps

Vial color and material	Clear glass	Amber glass
Total volume	20 mL	20 mL
Usable volume	18 mL	18 mL
Residual volume	0.8 mL	0.8 mL
Ordering information	**Cat. no.**	**Cat. no.**
100/pack	6ASV20-1	6ASV20-2
10 x 100/pack	6ASV20-1T	6ASV20-2T
50 x 100/pack	6ASV20-1F	6ASV20-2F

Looking for caps?
Our 18 mm precision screw caps which are a perfect fit for these vials



Headspace crimp vials and associated caps
(10 mL – 20 mL vials, 20 mm caps)

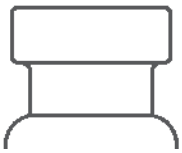
10 mL glass crimp headspace vials

Performance level 2 for high-throughput applications

Description

- Crimp
- 22.50 mm × 46 mm (diameter × height) round bottom base with beveled edge rim
- Marking spot
- Specification certified

For use with 20 mm crimp caps



Vial color and material	Clear glass	Amber glass
Total volume	10 mL	
Usable volume	8 mL	
Residual volume	0.8 mL	
Ordering information	**Cat. no.**	**Cat. no.**
100/pack	6ACV10-1R	6ACV10-2R
10 x 100/pack	6ACV10-1RT	6ACV10-2RT
50 x 100/pack	6ACV10-1RF	6ACV10-2RF

Headspace crimp vials and associated caps Continued
(10 mL – 20 mL vials, 20 mm caps)

20 mL glass crimp headspace vials

Performance level 2 for high-throughput applications

Description

- Crimp
- 22.65 mm × 75 mm (diameter × height) round bottom base with beveled edge rim (6ACV20-1R)
- 23 mm × 75.5 mm (diameter × height) round bottom base with beveled edge rim (6ACV20-1PE, 6ACV20-2PE)
- Marking spot
- Specification certified

For use with 20 mm crimp caps

Vial color and material	Clear glass	Clear glass	Amber glass
Vial diameter and length	22.65 × 75.5	23 × 75.5	23 × 75.5
Total volume	20 mL		
Usable volume	18 mL		
Residual volume	0.8 mL		
Ordering information	**Cat. no.**	**Cat. no.**	**Cat. no.**
100/pack	6ACV20-1R	6ACV20-1PE	6ACV20-2PE
10 x 100/pack	6ACV20-1RT	6ACV20-1PET	6ACV20-2PET
50 x 100/pack	6ACV20-1RF	6ACV20-1PEF	6ACV20-2PEF

6ACV20-1PE and 6ACV20-2PE fit PerkinElmer instruments

20 mm crimp caps

Performance level 2 for high-throughput applications

Description

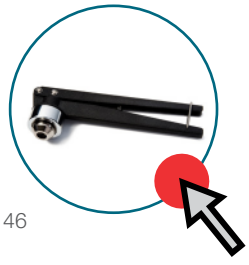
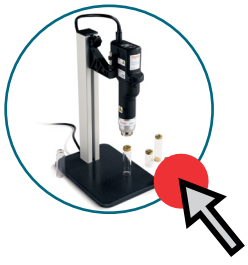
- Crimp closure (20 mm)
- Specification certified

For use with 10 mL and 20 mL crimp headspace vials (with neck size of 20 mm)

Use with 20 mm crimpers and decrimpers

Cap components	–	–	–	Magnetic	Magnetic
	–	–	Pressure release	–	Suitable for high temperature
	–	–	–	Soft septa	–
Cap color and material	Silver aluminium	Silver aluminium	Silver aluminium	Gold steel	Silver steel
Septum color and material	Black butyl/ grey PTFE/ molded Pharmafix	White silicone/ beige PTFE	White silicone/ beige PTFE	Blue silicone/ clear PTFE	Red silicone/ natural PTFE
Septum thickness	3.0 mm	3.2 mm	3.2 mm	3.0 mm	3.0 mm
Septum hardness	50 shore	45 shore	45 shore	40 shore	55 shore
Ordering information	**Cat. no.**	**Cat. no.**	**Cat. no.**	**Cat. no.**	**Cat. no.**
100/pack	6ACC20-PFT	6ACC20-ST1	6APRCC20-ST1	6AMCC20-ST3	6AMCC20-STH
10 x 100/pack	6ACC20-PFTT	6ACC20-ST1T	6APRCC20-ST1T	6AMCC20-ST3T	6AMCC20-STHT
50 x 100/pack	6ACC20-PFTF	6ACC20-ST1F	6APRCC20-ST1F	6AMCC20-ST3F	6AMCC20-STHF

Learn more about:
Manual and electronic crimpers and decrimpers

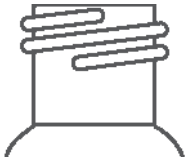
Headspace screw vials and associated caps
(20 mL, 18 mm closure)

Screw vial and cap kits

Performance level 2 for high-throughput applications

Description

- Screw thread
- Specification certified
- 22.5 × 75.5 (diameter × height) headspace round bottom base



Vial color and material	Clear glass
Vial total volume	20 mL
Cap color and material	Silver stainless steel open top screw cap, magnetic
Septum color and material	Blue silicone/clear PFTE, 45 shore hardness
Ordering information	**Cat. no.**
100/pack	6AKHSVST201

Stoppers and septa

20 mm stoppers and septa

Performance level 2 for high-throughput applications

Description

- Specification certified

For use with vials (e.g. 10 mL/20 mL crimp vials) with diameter neck size of 20 mm

Product description	Stopper (20 mm)	Septum (20 mm)	Septum (20 mm)
Color and material	Grey bromobutyl	White silicone/beige PTFE	Black butyl/ grey PTFE molded pharmafix
Septum thickness	3.0 mm	3.2 mm	3.0 mm
Septum hardness	45 shore	45 shore	50 shore
Ordering information	**Cat. no.**	**Cat. no.**	**Cat. no.**
100/pack	6A20BS	6A20ST1	6A20CBT3
10 x 100/pack	6A20BST	6A20BST	–
50 x 100/pack	6A20BSF	6A20BSF	–

EPA vials and caps

8 mL EPA screw vials

Performance level 2 for high-throughput applications

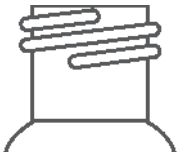
Description

- Screw (15-425)
- 17 × 60 mm (diameter × height) flat base
- Specification certified - Level 100 EPA vials

For use with 15 mm screw caps

These are processed and packages under a strict registered ISO Quality Management System. The products are not certified to EPA standards or pre-cleaned. Every case of product is labeled with its production number and is custody sealed to ensure reliable chain-of-custody.

EPA screw vials convenience kits are recommended for discrete water sampling under EPA 40 CFR 136 "Guidelines for Establishing Test Procedures for the Analysis of Pollutants" and EPA 40 CFR 141 "National Interim Primary Drinking Water Regulations: Control of Trihalomethanes in Drinking Water"



Vial color and material	Clear glass	Amber glass
Total volume	8 mL	8 mL
Usable volume	6 mL	6 mL
Residual volume	0.8 mL	0.8 mL
Ordering information	**Cat. no.**	**Cat. no.**
200/pack	6ASV8EPA-1	6ASV8EPA-2

12 mL EPA screw vials

Performance level 2 for high-throughput applications

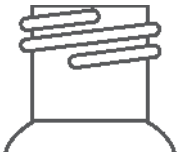
Description

- Screw thread (15-425)
- Specification certified - Level 100 EPA vials

For use with 15 mm screw caps

These are processed and packages under a strict registered ISO Quality Management System. The products are not certified to EPA standards or pre-cleaned. Every case of product is labeled with its production number and is custody sealed to ensure reliable chain-of-custody.

EPA screw vials convenience kits are recommended for discrete water sampling under EPA 40 CFR 136 "Guidelines for Establishing Test Procedures for the Analysis of Pollutants" and EPA 40 CFR 141 "National Interim Primary Drinking Water Regulations: Control of Trihalomethanes in Drinking Water".



Vial color and material	Clear glass	Amber glass
Total volume	12 mL	12 mL
Usable volume	11 mL	11 mL
Residual volume	0.8 mL	0.8 mL
Ordering information	Cat. no.	Cat. no.
200/pack	6ASV12EPA-1	6ASV12EPA-2

16 mL EPA screw vials

Performance level 2 for high-throughput applications

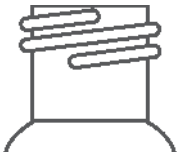
Description

- Screw thread (18-400)
- Specification certified - Level 100 EPA certified

For use with 18 mm screw caps

These are processed and packages under a strict registered ISO Quality Management System. The products are not certified to EPA standards or pre-cleaned. Every case of product is labeled with its production number and is custody sealed to ensure reliable chain-of-custody.

EPA screw vials convenience kits are recommended for discrete water sampling under EPA 40 CFR 136 "Guidelines for Establishing Test Procedures for the Analysis of Pollutants" and EPA 40 CFR 141 "National Interim Primary Drinking Water Regulations: Control of Trihalomethanes in Drinking Water".



Vial color and material	Clear glass	Amber glass
Total volume	16 mL	16 mL
Usable volume	15 mL	15 mL
Residual volume	0.8 mL	0.8 mL
Ordering information	**Cat. no.**	**Cat. no.**
200/pack	6ASV16EPA-1	6ASV16EPA-2

20 mL EPA screw vials

Performance level 2 for high-throughput applications

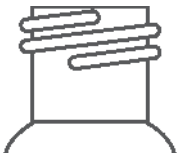
Description

- Screw thread (20-400)
- 23 × 85 mm (diameter × height) flat base
- Specification certified - Level 100 EPA vials

For use with 20 mm screw caps

These are processed and packages under a strict registered ISO Quality Management System. The products are not certified to EPA standards or pre-cleaned. Every case of product is labeled with its production number and is custody sealed to ensure reliable chain-of-custody.

EPA screw vials convenience kits are recommended for discrete water sampling under EPA 40 CFR 136 "Guidelines for Establishing Test Procedures for the Analysis of Pollutants" and EPA 40 CFR 141 "National Interim Primary Drinking Water Regulations: Control of Trihalomethanes in Drinking Water".



Vial color and material	Clear glass
Total volume	20 mL
Usable volume	18 mL
Residual volume	0.8 mL
Ordering information	**Cat. no.**
100/pack	6ASV20EPA-1

40 mL EPA screw vials

Performance level 2 for high-throughput applications

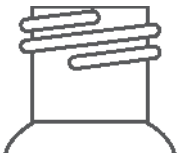
Description

- Screw thread 24 mm (24-400)
- Specification certified - Level 100 EPA vials

For use with 24 mm crimp caps

These are processed and packages under a strict registered ISO Quality Management System. The products are not certified to EPA standards or pre-cleaned. Every case of product is labeled with its production number and is custody sealed to ensure reliable chain-of-custody.

EPA screw vials convenience kits are recommended for discrete water sampling under EPA 40 CFR 136 "Guidelines for Establishing Test Procedures for the Analysis of Pollutants" and EPA 40 CFR 141 "National Interim Primary Drinking Water Regulations: Control of Trihalomethanes in Drinking Water".



Vial color and material	Clear glass	Amber glass
Total volume	40 mL	
Usable volume	38 mL	
Residual volume	0.8 mL	
Ordering information	Cat. no.	Cat. no.
100/pack	6ASV40EPA-1	6ASV40EPA-2

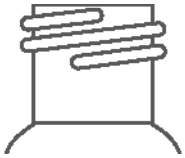
15 mm screw caps

Performance level 2 for high-throughput applications

Description

- Short thread screw closure 15 mm (15-425)
- Specification certified

For use with 8 and 12 mL screw vials (and other vials with screw 15 mm dimensions)



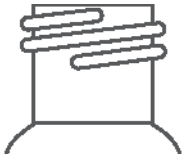
Cap color and material	White polypropylene, close top
Septum color and material	PE foam/PTFE
Septum thickness	-
Septum hardness	75 shore
Ordering information	Cat. no.
100/pack	6ASC15-CTP

18 mm screw caps

Performance level 2 for high-throughput applications

Description
• Screw closure 18 mm (18-400) • Specificaiton certified

For use with 20 mL EPA screw vials (and other vials with screw 18 mm dimensions) except for 20 mL headspace vials



Cap color and material	White polypropylene, close top
Septum color and material	PE foam/PTFE
Septum thickness	–
Septum hardness	75 shore
Ordering information	**Cat. no.**
100/pack	6ASC18-CTP

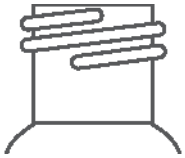
24 mm screw caps

Performance level 2 for high-throughput applications

Description

- Screw closure 24 mm (24-400)
- Specification certified

For use with 40 mL screw vials (and other vials with screw 24 mm dimensions)



Cap color and material	White polypropylene, close top
Septum color and material	PE foam/PTFE
Septum thickness	-
Septum hardness	75 shore
Ordering information	Cat. no.
100/pack	6ASC24-CTP

22 mm septa

Performance level 2 for high-throughput applications

Description

- Specification certified

For use with screw vials (with 24-400 screw thread closure) with a diameter neck size of 22 mm

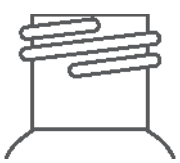
Product description	Septum (22 mm)
Color and material	Clear silicone/beige PTFE
Septum thickness	2.6 mm
Septum hardness	50 shore
Ordering information	**Cat. no.**
100/pack	6A24ST26

Specification certified vial and cap kits, EPA kits, and scintillation kits

Specification certified screw vial and cap kits

Performance level 2 for high-throughput applications

Description
• 2 mL screw vial (9 mm) with short thread screw closure • Marking spot • Specification certified



Key attributes	AVCS				
Vial color and material	Clear glass	Amber glass	Clear glass	Clear glass	Amber glass
Vial total volume	2 mL				
Cap color and material	Blue polypropylene				
Septum color and material	Red silicone/ ivory PTFE	Red silicone/ ivory PTFE	Red PTFE/white silicone/red PTFE	White silicone/ red PTFE	White silicone/ red PTFE
Ordering information	**Cat. no.**	**Cat. no.**	**Cat. no.**	**Cat. no.**	**Cat. no.**
100/pack	6AK80W	6AK82W	6AK86W	6AK92W	6AK94W

Specification certified vial and cap kits, EPA kits, and scintillation kit
Continued

Specification certified screw vial and cap kits Continued

Performance level 2 for high-throughput applications

Description

- 2 mL screw vial (9 mm) with short thread screw closure
- Marking spot
- Specification certified

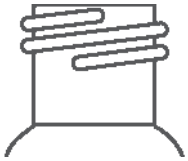
Key attributes	SureStop/ AVCS	SureStop/ AVCS	SureStop/ AVCS	AVCS	AVCS	Bonded	Bonded
	–	–	Preslit septa	Soft septa	Preslit septa	Preslit septa	–
Vial color and material	Clear glass	Amber glass	Clear glass	Clear glass	Clear glass	Clear glass	Clear glass
Vial total volume	2 mL						
Cap color and material	Blue polypropylene	Blue polypropylene	Blue polypropylene	Blue polypropylene	Blue polypropylene	Grey polypropylene	Black polypropylene
Septum thickness	White silicone/ red PTFE	White silicone/ red PTFE	White silicone/ blue PTFE	Blue silicone/ clear PTFE	White silicone/ blue PTFE	White silicone/ red PTFE	White silicone/ red PTFE
Ordering information	Cat. no.	Cat. no.	Cat. no.	Cat. no.	Cat. no.	Cat. no.	Cat. no.
100/pack	6AK592W	6AK594W	6AK595W	6AK599W	6AK95W	6AK93BW	6AK78BW

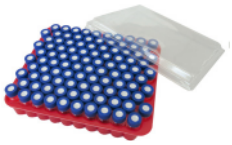
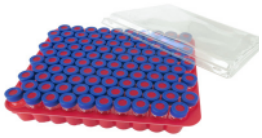
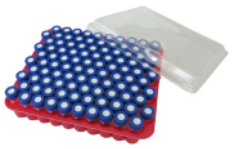
Specification certified screw vial and cap kits Continued

Performance level 2 for high-throughput applications

Description

- Assembled 2 mL screw vial (9 mm) with short thread screw closure
- Marking spot
- Specification certified



Vial color and material	Clear glass	Amber glass	Clear glass	Amber glass
Vial total volume	2 mL	2 mL	2 mL	2 mL
Cap color and material	Blue propylene	Blue propylene	Blue propylene	Blue propylene
Septum color and material	Red PTFE/white silicone/ red PTFE	White silicone/ red PTFE	Red silicone/ ivory PTFE (RedRubber/PTFE)	White silicone/ blue PTFE, pre-slit
Ordering information	**Cat. no.**	**Cat. no.**	**Cat. no.**	**Cat. no.**
100/pack	6AK186W	6AK192W	6AK180W	6AK195W

Specification certified vial and cap kits, EPA kits, and scintillation kits

Continued

EPA screw vial and cap kits

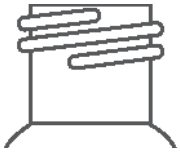
Performance level 2 for high-throughput applications

Description

- 4 mL – 40 mL screw vials with screw closures (13 mm – 24 mm)
- Level 100 EPA vials

These are processed and packages under a strict registered ISO Quality Management System. The products are not certified to EPA standards or pre-cleaned. Every case of product is labeled with its production number and is custody sealed to ensure reliable chain-of-custody.

EPA screw vials convenience kits are recommended for discrete water sampling under EPA 40 CFR 136 "Guidelines for Establishing Test Procedures for the Analysis of Pollutants" and EPA 40 CFR 141 "National Interim Primary Drinking Water Regulations: Control of Trihalomethanes in Drinking Water".



Vial color and material	Clear glass	Amber glass	Clear glass	Amber glass	Clear glass	Amber glass
Vial total volume	4 mL (13 mm)		8 mL (15 mm)		12 mL (15 mm)	
Cap color and material	White screw cap (PP) (13 mm) close top		White screw cap (PP) (15 mm) close top			
Septum color and material	PE foam/white PTFE closed top					
Ordering information	**Cat. no.**	**Cat. no.**	**Cat. no.**	**Cat. no.**	**Cat. no.**	**Cat. no.**
100/pack	6AK4CCT	6AK4ACT	–	–	–	–
200/pack	–	–	6AK8CCT	6AK8ACT	6AK12CCT	6AK12ACT

Specification certified vial and cap kits, EPA kits, and scintillation kit

Continued

EPA screw vial and cap kits Continued

Performance level 2 for high-throughput applications

Description

- 4 mL – 40 mL screw vials with screw closures (13 mm – 24 mm)
- Level 100 EPA vials

These are processed and packages under a strict registered ISO Quality Management System. The products are not certified to EPA standards or pre-cleaned. Every case of product is labeled with its production number and is custody sealed to ensure reliable chain-of-custody.

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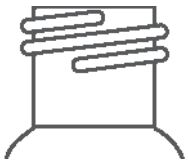


Vial color and material	Clear glass	Amber glass	Clear glass	Amber glass	Clear glass
Vial total volume	16 mL (18 mm 18-400)		20 mL (24 mm /24-400)		
Cap color and material	White screw cap (PP) (18 mm)		White screw cap (PP) (24 mm), assembled		
Septum color and material	PE foam/white PTFE closed top				Clear silicone/white PFTE open top
Ordering information	**Cat. no.**	**Cat. no.**	**Cat. no.**	**Cat. no.**	**Cat. no.**
100/pack	–	–	6AK20CCTAS	6AK20ACTAS	6AK20COTAS
200/pack	6AK16CCT	6AK16ACT	–	–	–

Specification certified vial and cap kits, EPA kits, and scintillation kit
Continued

EPA screw vial and cap kits Continued

Performance level 2 for high-throughput applications

Description

- 4 mL – 40 mL screw vials with screw closures (13 mm – 24 mm)
- Level 100 EPA vials

Vial color and material	Clear glass	Amber glass	Clear glass	Amber glass
Vial total volume	40 mL (24 mm)			
Cap color and material	White screw cap (PP) (24 mm), assembled		White screw cap (PP) (24 mm)	
Septum color and material	Clear silicone/white PTFE open top		PE foam/white PTFE closed top	
Ordering information	**Cat. no.**	**Cat. no.**	**Cat. no.**	**Cat. no.**
100/pack	6AK40COTAS	6AK40AOTAS	6AK40CCT	6AK40ACT

Key attributes	Scintillation
Vial color and material	Clear screw
Vial total volume	20 mL
Cap color and material	White closed top screw cap
Septum color and material	Silver polypropylene foil
Ordering information	**Cat. no.**
5 x 100/pack	6AK20SCIN

Performance level 3: High performance

When sensitivity is a must

Protect your most valuable samples and deliver consistent, reproducible results for your most demanding analyses

Our Thermo Scientific™ SureSTART™ Performance level 3 products are packed in clean rooms to protect them against environmental factors, and contain the lowest amounts/levels of metals, extractables and leachables; ensuring that you can get the sensitivity and selectivity from your most challenging analytes confidently and consistently.

If you are looking for the ultimate performance from your methods, while maintaining the highest levels of and sample security and integrity, our Performance level 3 products will meet your needs. Select the products with the three waves.

For analytes that are prone to glass adsorption why not try our GOLD-grade glass technology which has been specifically designed for these more challenging polar analytes, as well as our silanized vials and inserts

This offering includes Thermo Scientific™ SureStop™ vials, which, when used with 9 mm AVCS caps, ensure an optimal seal every time. The SureStop vial-AVCS cap system is specially designed to prevent screw thread vial failures such as cap tilt, cap deformities, dislodged septa or septa push through, thus prevents injection failures and sample evaporation.

Our Performance level 3 septa have the highest purity as they have been conditioned to remove all the low-mid boiling volatiles providing the lowest extractables and leachables within the collection. You can also find within this Performance level soft septa options for ultimate needle performance, as these products offer protection for even the most fragile needles with the highest gauge, and SPME fibers. You can also find our high temperature compatible septa here.

Performance level 3

for high performance applications

- All products within this Performance level are suitable for GC, HPLC/UHPLC, and nominal mass and high-resolution accurate mass (HR-AM) applications
- Headspace vials and caps available from 6 mL – 20 mL
- Vials are identified by three waves and a convenient write-on patch as standard
- Vials available as screw, SureStop, snap and crimp
- Vials available in glass, GOLD-grade glass, silanized and TPX
- Vials available as clear or amber glass
- Volume sizes ranging from 0.2 mL to 20 mL covering limited sample volumes to headspace analyses
- Vials with fixed inserts are available
- Caps available as screw, screw AVCS, snap and crimp
- Use Thermo Scientific Manual or Electronic Crimpers and decrimpers for easy application and removal of crimp caps
- LC/GC Certified, MSCERT and MSCERT+ Kits can be found within Performance level 3
- Buy vials and caps in bulk for greater savings

Specification certified

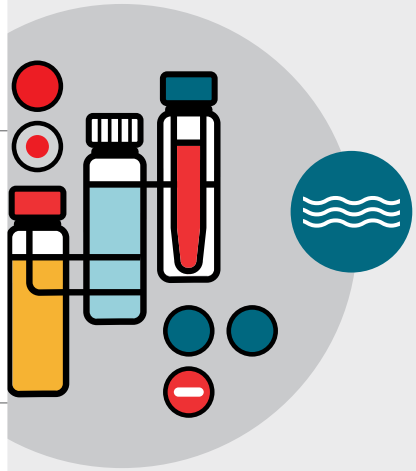
- All Thermo Scientific SureSTART vials are dimensionally verified
- Inspected by automated optical and gauge inspection to ensure critical dimensions and tolerances
- Meet all relevant requirements of US, EU, JPN Pharmacopeia.
- Uniform and defect-free

Lot traceable

- 100% traceable through the manufacturing process
- Certificate of Conformance available by lot number upon request

Performance level 3:
High performance

Vials	Caps
0.2 mL TPX screw microvial	9 mm screw caps
Glass screw vials	
1.4 mL total recovery glass screw vials	
1.5 mL total recovery glass screw vials	
1.7 mL high recovery glass screw vials	
2 mL glass screw vials	
2 mL GOLD-grade glass screw vials	
Glass crimp microvials	11 mm crimp caps
2 mL GOLD-grade glass crimp vial	
2 mL glass crimp vials	
Glass snap microvials	
1.5 mL total recovery glass snap microvials	11 mm snap caps
High recovery glass snap microvials	
2 mL glass snap vials	
Vial inserts for 2 mL vials	—
Glass crimp headspace vials	20 mm crimp caps
Crimpers and decrimpers	
Electronic crimpers and decrimpers	
Kits	
LC/GC certified	
TOC	
MSCERT and MSCERT+	
Assembled	



Screw vials and associated caps
(<2 mL – 2 mL vials, 9 mm caps)

What is TPX?

It is a transparent plastic (polymethylpentene) that is heat resistant and has excellent resealability.

0.2 mL TPX screw microvial with glass insert

Performance level 3 for high performance analysis

Description
• Short thread screw • 12 mm × 32 mm (diameter × height) fixed conical glass insert • No marking spot • Specification certified
For use with 9 mm screw caps, or 9 mm AVCS screw cap

Vial color and material	TPX with fixed insert
	Clear glass, amber transparent plastic
Total volume	200 µL
Usable volume	150 µL
Residual volume	1 µL
Ordering information	Cat. no.
100/pack	60180-1655

Want to learn more?

Watch this short microsampling video

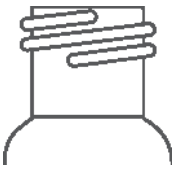
Screw vials and associated caps Continued
(<2 mL – 2 mL vials, 9 mm caps)

Glass screw microvials
Performance level 3 for high performance analysis

Description

- Short thread screw
- 12 mm × 32 mm (diameter × height) fixed conical insert, flat bottom base
- Marking spot
- Specification certified

For use with 9 mm screw caps, or 9 mm AVCS screw caps



Vial color and material	Clear glass	Amber glass
Total volume	300 µL	
Usable volume	250 µL	
Residual volume	2 µL	
Ordering information	**Cat. no.**	**Cat. no.**
100/pack	6PSV9-03FIVP	6PSV9-03FIVAP
10 x 100/pack	6PSV9-03FIVPT	6PSV9-03FIVAPT
50 x 100/pack	6PSV9-03FIVPF	6PSV9-03FIVAPF

Screw vials and associated caps Continued
(<2 mL – 2 mL vials, 9 mm caps)

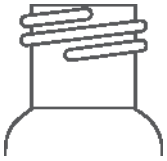
1.4 mL and 1.5 mL total recovery glass screw microvial

Performance level 3 for high performance analysis

Description

- Short thread screw
- 12 mm × 32 mm (diameter × height) total recovery internal base
- No marking spot
- Specification certified

For use with 9 mm screw caps, or 9 mm AVCS screw caps



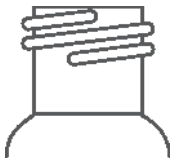
Vial color and material	Clear glass	Clear glass
Total volume	1.5 mL	1.4 mL
Usable volume	1.1 mL	1.0 mL
Residual volume	1 µL	4 µL
Ordering information	**Cat. no.**	**Cat. no.**
100/pack	6PSV9-TR1	6PSV9-CHV1
10 x 100/pack	6PSV9-TR1T	–
50 x 100/pack	6PSV9-TR1F	–

Screw vials and associated caps Continued
(<2 mL – 2 mL vials, 9 mm caps)

1.7 mL high recovery glass screw microvial

Performance level 3 for high performance analysis

Description
• Short thread screw • 12 mm × 32 mm (diameter × height) internal V-base • No marking spot • Specification certified
For use with 9 mm screw caps, or 9 mm AVCS screw caps



Vial color and material	Clear glass
Total volume	1.7 mL
Usable volume	1.5 mL
Residual volume	4 µL
Ordering information	**Cat. no.**
100/pack	6PSV9-V1
10 x 100/pack	6PSV9-V1T
50 x 100/pack	6PSV9-V1F

Screw vials and associated caps Continued
(<2 mL – 2 mL vials, 9 mm caps)

2 mL Gold-grade glass screw vials
Performance level 3 for high performance analysis

Description
• Short thread screw • 12 mm × 32 mm (diameter × height), flat bottom base • Marking spot • Specification certified
For use with 9 mm screw caps, or 9 mm AVCS screw caps

Vial color and material	SureStop, GOLD-grade glass	
	Clear glass	
Total volume	2 mL	
Ordering information	Cat. no.	
100/pack	6PSV9-1PG	
10 x 100/pack	6PSV9-1PGT	
50 x 100/pack	6PSV9-1PGF	

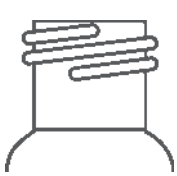
Learn more about our quality materials:
Thermo Scientific SureSTART products—Innovation

Screw vials and associated caps Continued
(<2 mL – 2 mL vials, 9 mm caps)

2 mL glass screw vials

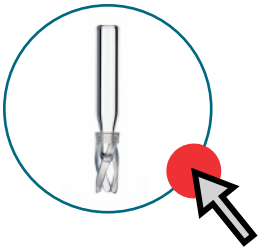
Performance level 3 for high performance analysis

Description
• Screw • 12 mm x 32 mm (diameter x height) flat bottom base • Marking spot • Specification certified
For use with 9 mm screw caps, or 9 mm AVCS screw caps



Vial color and material	–	Silianised	SureStop	SureStop
	Clear glass	Clear glass	Clear glass	Amber glass
Total volume	2 mL			
Usable volume	1.5 mL			
Ordering information	**Cat. no.**	**Cat. no.**	**Cat. no.**	**Cat. no.**
100/pack	6PSV9-1P	6PSV9-S1P	6PSV9-1PSS	6PSV9-2PSS
10 x 100/pack	6PSV9-1PT	–	6PSV9-1PSST	6PSV9-2PSST
50 x 100/pack	6PSV9-1PF	–	6PSV9-1PSSF	6PSV9-2PSSF

Need a smaller volume?
Why not use with our polyspring glass inserts



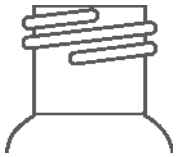
Screw vials and associated caps Continued
(<2 mL – 2 mL vials, 9 mm caps)

9 mm screw caps
Performance level 3 for high-throughput applications

Description

- Short thread screw
- Specification certified

For use with <2 mL – 2 mL screw vials



Cap components	AVCS cap					
	—	Pre-slit septa	—	Pre-slit septa	—	—
	—	—	—	Soft septa	Soft septa	
Cap color and material	Blue polypropylene	Blue polypropylene	Blue polypropylene	Blue polypropylene	Blue polypropylene	Red polypropylene
Septum color and material	Red PTFE/ white silicone/ red PTFE	White silicone/ blue PTFE	White silicone/ red PTFE	Blue silicone/ clear PTFE	Blue silicone/ clear PTFE	Red PTFE/ white silicone/ red PTFE
Septum hardness	45 shore	54 shore	54 shore	30 shore	30 shore	45 shore
Ordering information	**Cat. no.**	**Cat. no.**	**Cat. no.**	**Cat. no.**	**Cat. no.**	**Cat. no.**
100/pack	6PSC9TST	6PSC9STS1	6PSC9ST1	6PSC9ST101X	6PSC9ST101	6PSC9TSTR
10 x 100/pack	6PSC9TSTT	6PSC9STS1T	6PSC9ST1T	—	—	6PSC9TSTRT
50 x 100/pack	6PSC9TSTF	6PSC9STS1F	6PSC9ST1F	—	—	6PSC9TSTRF

Screw vials and associated caps Continued
(<2 mL – 2 mL vials, 9 mm caps)

9 mm screw caps Continued

Performance level 3 for high-throughput applications

Description
• Short thread screw • Specification certified • Screw AVCS technology
For use with <2 mL – 2 mL screw vials

Cap components	AVCS cap	AVCS cap	AVCS cap
	Pre-slit septa	–	–
	–	–	–
Cap color and material	Yellow polypropylene	Yellow polypropylene	Green polypropylene
Septum color and material	White silicone/ blue PTFE	Red PTFE/ White silicone/ red PTFE	Red PTFE/ White silicone/ red PTFE
Septum thickness	1 mm		
Septum hardness	45 shore	50 shore	50 shore
Ordering information	Cat. no.	Cat. no.	Cat. no.
100/pack	6PSC9STS1Y	6PSC9TSTY	6PSC9TSTG

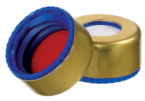
Screw vials and associated caps Continued
(<2 mL – 2 mL vials, 9 mm caps)

9 mm screw caps Continued
Performance level 3 for high-throughput applications

Description

- Short thread screw
- Specification certified

For use with <2 mL – 2 mL screw vials



Cap components	AVCS cap	AVCS cap	Bonded cap	Bonded cap	AVCS cap
	Pre-slit septa	–	Pre-slit septa	–	–
	–	–	–	–	Magnetic cap
Cap color and material	Red polypropylene	Red polypropylene	Grey polypropylene	Black polypropylene	Blue polypropylene with gold magnetic tinplate cover
Septum color and material	White silicone/blue PTFE	White silicone/red PTFE	White silicone/red PTFE	White silicone/red PTFE	White silicone/red PTFE
Septum thickness	1 mm				
Septum hardness	54 shore				
Ordering information	**Cat. no.**	**Cat. no.**	**Cat. no.**	**Cat. no.**	**Cat. no.**
100/pack	6PSC9STS1R	6PSC9ST1R	6PSC9STBS1	6PSC9STB1	6PMSC9ST1
10 x 100/pack	6PSC9STS1RT	6PSC9ST1RT	6PSC9STBS1T	6PSC9STB1T	–
50 x 100/pack	6PSC9STS1RF	6PSC9ST1RF	6PSC9STBS1F	6PSC9STB1F	–

Crimp vials and associated caps
(<2 mL – 2 mL, 11 mm caps)

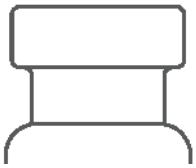
Glass crimp microvials

Performance level 3 for high performance analysis

Description

- Crimp
- 12 mm x 32 mm (diameter x height) fixed conical insert, flat bottom base
- Marking spot
- Specification certified

For use with 8 mm crimp vials

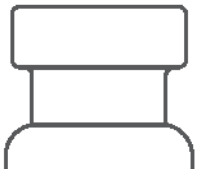


Vial color and material	Clear glass	Amber glass	Clear glass, round bottom, Gold grade	Clear glass, conical bottom, Gold grade
Total volume	300 µL		300 µL	200 µL
Usable volume	250 µL		250 µL	150 µL
Residual volume	4 µL		2 µL	2 µL
Ordering information	**Cat. no.**	**Cat. no.**	**Cat. no.**	**Cat. no.**
100/pack	6PCV11-03FIVP	6PCV1103FIVAP	6PCV8-03R1G	6PCV8-02C1G
10 x 100/pack	6PCV11-03FIVPT	6PCV1103FIVAPT	–	–
50 x 100/pack	6PCV11-03FIVPF	6PCV1103FIVAPF	–	–

2 mL GOLD-grade crimp vials

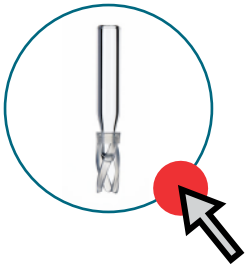
Performance level 3 for high performance analysis

Description
• Crimp • 12 mm x 32 mm (diameter x height) • Marking spot • Specification certified
For use with 11 mm crimp caps



Vial color and material	GOLD-grade glass
	Clear glass
Total volume	2 mL
Ordering information	Cat. no.
100/pack	6PCV11G

Need a smaller volume?
Why not use with our glass inserts



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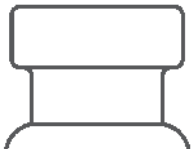
Crimp vials and associated caps Continued
(<2 mL – 2 mL, 11 mm caps)

2 mL glass crimp vials

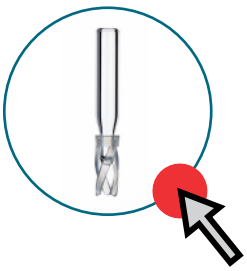
Performance level 3 for high performance analysis

Description
• Crimp • 12 mm × 32 mm (diameter × height) • Marking spot • Specification certified
For use with 11 mm crimp caps



Vial color and material	Clear glass
Total volume	2 mL
Usable volume	1.5 mL
Ordering information	**Cat. no.**
100/pack	6PCV11-1P
10 x 100/pack	6PCV11-1PT
50 x 100/pack	6PCV11-1PF

Need a smaller volume?
Why not use with our glass inserts



Crimp vials and associated caps Continued
(<2 mL – 2 mL, 11 mm caps)

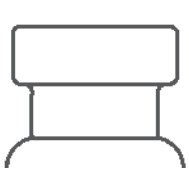
11 mm crimp caps
Performance level 3 for high performance analysis

Description

- Crimp closure (11 mm)
- Specification certified

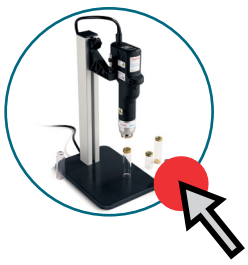
For use with <2 mL – 2 mL crimp vials, or <2 mL – 2 mL snap vials

Use with 11 mm crimpers and decrimpers



Cap color and material	Silver aluminium	Silver magnetic steel	Silver aluminium	Silver magnetic steel
Septum color and material	Red PTFE/ white silicone/red PTFE	White silicone/ red PTFE	Blue silicone/clear PTFE, soft septa, pre-slit	Blue silicone/ clear PTFE, soft septa
Septum thickness	1 mm			
Septum hardness	45 shore	57 shore	30 shore	30 shore
Ordering information	**Cat. no.**	**Cat. no.**	**Cat. no.**	**Cat. no.**
100/pack	6PCC11TST	6PCCMST15	6PCC11ST101	6PCCMST101X

Learn more about:
Manual and electronic crimpers and decrimpers



Snap vials and associated caps
(<2 mL – 2 mL vials, 11 mm caps)

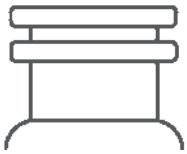
Glass snap microvials

Performance level 3 for high performance analysis

Description

- Snap
- 11 mm × 32 mm (diameter × height) fixed conical insert, flat bottom base
- Marking spot
- Specification certified

For use with 11 mm snap caps or 11 mm crimp caps

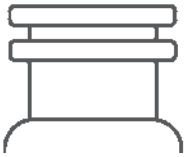


Vial color and material	Clear glass	Amber glass
Total volume	300 µL	
Usable volume	250 µL	
Residual volume	4 µL	
Ordering information	Cat. no.	Cat. no.
100/pack	6PRV11-03FIVP	6PRV1103FIVAP
10 x 100/pack	6PRV11-03FIVPT	6PRV1103FIVAPT
50 x 100/pack	6PRV11-03FIVPF	6PRV1103FIVAPF

Snap vials and associated caps Continued
(<2 mL – 2 mL vials, 11 mm caps)

1.5 mL total recovery glass snap microvials
Performance level 3 for high performance analysis

Description
• Snap • 12 mm × 32 mm (diameter × height) total recovery internal base • No marking spot • Specification certified
For use with 11 mm snap caps



Vial color and material	Clear glass
Total volume	1.5 mL
Usable volume	1.1 mL
Residual volume	1 µL
Ordering information	**Cat. no.**
100/pack	6PRV11-TR1
10 x 100/pack	6PRV11-TR1T
50 x 100/pack	6PRV11-TR1F

Snap vials and associated caps Continued
(<2 mL – 2 mL vials, 11 mm caps)

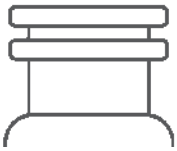
High recovery glass snap microvials

Performance level 3 for high performance analysis

Description

- Snap
- 12 mm × 32 mm (diameter × height) internal V-base
- No marking spot
- Specification certified

For use with 11 mm snap caps



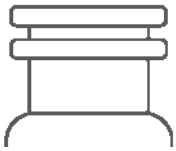
Vial color and material	Silanized glass	Clear glass	Clear glass
Total volume	1.7 mL	1.7 mL	1.5 mL
Usable volume	1.5 mL	1.5 mL	1.2 mL
Residual volume		4 µL	
Ordering information	**Cat. no.**	**Cat. no.**	**Cat. no.**
100/pack	6PRV11-S1V	6PRV11-1V	6PRV11-15V
10 x 100/pack	–	–	6PRV11-15VT
50 x 100/pack	–	–	6PRV11-15VF

Snap vials and associated caps Continued
(<2 mL – 2 mL vials, 11 mm caps)

2 mL glass snap vials

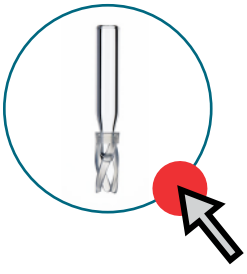
Performance level 3 for high performance analysis

Description
• Snap • 12 mm × 32 mm (diameter × height) • Marking spot • Specification certified
For use with 11 mm snap caps



Vial color and material	Clear glass
Total volume	2 mL
Usable volume	1.5 mL
Ordering information	**Cat. no.**
100/pack	6PRV11-1P
10 x 100/pack	6PRV11-1PT
50 x 100/pack	6PRV11-1PF

Need a smaller volume?
Why not use with our glass inserts



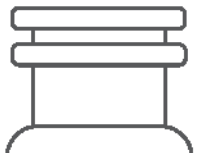
Snap vials and associated caps Continued
(<2 mL – 2 mL vials, 11 mm caps)

11 mm snap cap
Performance level 3 for high performance analysis

Description

- Snap closure (11 mm)
- Specification certified

For use with <2 mL and 2 mL snap vials



Key attributes	Pre-slit	–	–	Star pre-slit	–	–
Cap color and material	Blue polyethylene	Blue polyethylene	Blue polyethylene	Clear polyethylene	Red polyethylene	Red polyethylene
Septum color and material	–	–	Soft	–	–	–
	White silicone/ blue PTFE	White silicone/ red PTFE	Blue silicone/ clear PTFE	White silicone/ red PTFE	Red silicone/ blue PTFE	White silicone/ red PTFE
Septum thickness	1 mm	1 mm	1 mm	1 mm	1.3 mm	1.3 mm
Septum hardness	54 shore	54 shore	45 shore	54 shore	54 shore	54 shore
Ordering information	**Cat. no.**	**Cat. no.**	**Cat. no.**	**Cat. no.**	**Cat. no.**	**Cat. no.**
100/pack	6PRC11STS1	6PRC11ST1	6PRC11ST101	6PRC11STS1X	6PRC11STS1R	6PRC11ST1R
10 x 100/pack	6PRC11STS1T	PRC11ST1T	6PRC11ST101T	6PRC11STS1XT	6PRC11STS1RT	6PRC11ST1RT
50 x 100/pack	6PRC11STS1F	6PRC11ST1F	6PRC11ST101F	6PRC11STS1XF	6PRC11STS1RF	6PRC11ST1RF

Snap vials and associated caps Continued
(<2 mL – 2 mL vials, 11 mm caps)

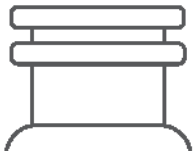
11 mm snap cap Continued

Performance level 3 for high performance analysis

Description

- Snap closure (11 mm)
- Specification certified

For use with <2 mL and 2 mL snap vials



Key attributes		–	Pre-slit	Pre-slit	Pre-slit
Cap color and material	Red polyethylene	Red polyethylene	Green polyethylene	Yellow polyethylene	Clear polyethylene
Septum color and material	Blue Silicone/ clear PTFE, soft	Red PTFE/ white silicone/ red PTFE	White silicone/ blue PTFE	White silicone/ blue PTFE	White silicone/ blue PTFE
Septum thickness	45 shore	50 shore	45 shore	45 shore	45 shore
Septum hardness	1.0 mm	1.0 mm	1.0 mm	1.0 mm	1.0 mm
Ordering information	**Cat. no.**	**Cat. no.**	**Cat. no.**	**Cat. no.**	**Cat. no.**
100/pack	6PRC11ST101R	6PRC11TST1R	6PRC11STS1G	6PRC11STS1Y	6PRC11STS1C
10 x 100/pack	6PRC11ST101RT	–	–	–	–
50 x 100/pack	6PRC11ST101RF	–	–	–	–

Inserts
(2 mL vials)

Watch this short microsampling video

Inserts for 2 mL vials

Performance level 3 for high-throughput applications

Description

- 6 mm × 31 mm (diameter × height)
- No marking spot
- Specification certified

For use with 2 mL screw vials, 2 mL snap vials or 2 mL crimp vials

Insert color and material	GOLD-grade glass	Deactivated/ silanized glass	–	–	–	–	–
	0.2 mL clear conical glass insert	0.3 mL clear conical glass insert, with PE polyspring	0.3 mL conical glass insert, with PE polyspring	0.4 mL clear conical glass insert, with pulled point	0.4 mL clear conical glass insert, with pulled point	0.5mL clear flat bottom glass insert	0.5mL clear flat bottom glass insert
Total volume	200 µL	300 µL	300 µL	400 µL	400 µL	500 µL	500 µL
Usable volume	150 µL	250 µL	250 µL	350 µL	350 µL	450 µL	450 µL
Residual volume	2 µL	1 µL	4 µL	4 µL	2 µL	25 µL	25 µL
Height	31 mm	30 mm	30 mm	31 mm	31 mm	31 mm	31 mm
Inner diameter	6 mm	6 mm	6 mm	6 mm	6 mm	6 mm	6 mm
Base style	Conical base	Conical base	Conical base	Conical base	Conical base	Flat bottom	Flat bottom
Ordering information	Cat. no.	Cat. no.	Cat. no.	Cat. no.	Cat. no.	Cat. no.	Cat. no.
100/pack	–	6PME03C1SSP	6PME03C1SP	6PME04C1	6PME04CPR1	–	–
10 x 100/pack	6PME02CG	6PME03C1SSPT	6PME03C1SPT	6PME04C1T	–	–	–
50 x 100/pack	–	6PME03C1SSPF	6PME03C1SPF	6PME04C1F	–	6PME05F1*	6PME05FS1

*Pack of 500 only

Learn more about

2 mL glass screw vias

2 mL glass crimp vials

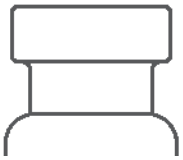
2 mL glass snap vials

Headspace crimp vials and associated caps
(6 mL – 20 mL vials, 20 mm caps)

6 mL, 10 mL and 20 mL glass crimp headspace vials

Performance level 3 for high performance analysis

Description
• Crimp (20 mm) • Marking spot • Specification certified
For use with 20 mm crimp caps



Vial color and material	Clear glass			
Total volume	6 mL	10 mL	20 mL	20 mL
Usable volume	5 mL	8 mL	18 mL	18 mL
Residual volume	0.8 mL	0.8 mL	0.8 mL	0.8 mL
Dimensions	21.75 mm x 38 mm	22.75 mm x 46 mm	22.75 mm x 75.0 mm	22.75 mm x 75.0 mm
Rim and base style	Square rim, flat bottom	Beveled rim, flat bottom	Beveled rim, flat bottom	Beveled rim, round bottom
Ordering information	**Cat. no.**	**Cat. no.**	**Cat. no.**	**Cat. no.**
100/pack	6PCV6-1F	6PCV10-1F	6PCV20-1F	6PCV20-1R
10 x 100/pack	6PCV6-1FT	6PCV10-1FT	6PCV20-1FT	6PCV20-1RT
50 x 100/pack	6PCV6-1FF	6PCV10-1FF	6PCV20-1FF	6PCV20-1RF

Headspace crimp vials and associated caps Continued
(6 mL – 20 mL vials, 20 mm caps)

8 mm crimp caps

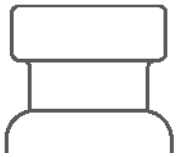
Performance level 3 for high performance analysis

Description

- Crimp closure (8 mm)
- Specification certified

For use with <2 mL crimp vials (with neck size of 8 mm)

Use with 8 mm crimpers and decrimpers



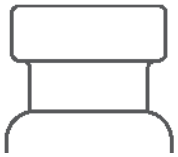
Cap color and material	–
	Silver aluminium
Septum color and material	Blue silicone/ clear PTFE; soft
Septum thickness	1 mm
Septum hardness	30 shore
Ordering information	**Cat. no.**
100/pack	6PCC8ST101

Headspace crimp vials and associated caps Continued
(6 mL – 20 mL vials, 20 mm caps)

18 mm precision screw caps

Performance level 3 for high performance analysis

Description
• Crimp closure • Specification certified
For use with 10 mL and 20 mL screw top headspace vials



Cap color and material	Magnetic Silver aluminium	Magnetic Silver aluminium
Septum color and material	Blue silicone/ clear PTFE; soft	Red silicone/ natural PTFE; high temperautre
Septum thickness	2 mm	3 mm
Septum hardness	45 shore	45 shore
Ordering information	**Cat. no.**	**Cat. no.**
100/pack	6PMSC18-ST2	6PMSC18-STH
10 x 100/pack	6PMSC18-ST2T	6PMSC18-STHT
50 x 100/pack	PMSC18-ST2F	6PMSC19-STHF

Headspace crimp vials and associated caps Continued
(6 mL – 20 mL vials, 20 mm caps)

20 mm crimp caps

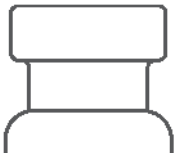
Performance level 3 for high performance analysis

Description

- Crimp closure (20 mm)
- Specification certified

For use with 10 mL and 20 mL crimp headspace vials (with neck size of 20 mm)

Use with 20 mm crimpers and decrimpers



Cap color and material	–	Magnetic	Magnetic	Magnetic	Magnetic
	Silver aluminium	Red aluminium/ magnetic tinplate	Silver aluminium/ magnetic tinplate	Blue aluminium/ magnetic tinplate	Red aluminium/ magnetic tinplate
Septum color and material	Blue silicone/ clear PTFE; soft	Blue silicone/ clear PTFE; soft	Red silicone/ natural PTFE; high Temperature	White silicone/ blue PTFE	Grey chlorobutyl/ black PTFE
Septum thickness	3 mm	3 mm	3 mm	3 mm, 1.5 mm at thinned area	3 mm
Septum hardness	45 shore	45 shore	54 shore	54 shore	50 shore
Ordering information	**Cat. no.**	**Cat. no.**	**Cat. no.**	**Cat. no.**	**Cat. no.**
100/pack	6PCC20-ST3	6PBCC20-ST3	6PBCC20-STH	6PBCC20-STME	6PBCC20-CBT3
10 x 100/pack	6PCC20-ST3T	6PBCC20-ST3T	6PBCC20-STHT	6PBCC20-STMET	–
50 x 100/pack	6PCC20-ST3F	6PBCC20-ST3F	6PBCC20-STHF	6PBCC20-STMEF	–

Learn more about:
Manual and electronic crimpers and decrimpers

Specification certified, LC/GC certified, MSCERT and MSCERT+ kits

1. Specification certified kits

For everyday analysis

- Tested and certified for up to 15 critical physical specifications

2. LC/GC certified kits

For chromatographic analysis

- Tested and certified for up to 15 critical physical specifications
- Tested and certified using LC-UV and GC-FID to ensure that there are no residual manufacturing agents present in the vial
- A certificate is provided with each kit

3. MSCERT and MSCERT+ kits

For use with mass spectrometry systems

- Our mass spec certified vials carry our highest level of certification and are recommended for low adsorption
- Tested and certified for up to 15 critical physical specifications
- Tested using LC-MS and GC-MS for low contamination
- Certification comes with the kit
- MSCERT+ kits are pre-cleaned and certified for particle count
  - Highly recommended for direct injection analysis (DIA)

	MSCERT	MSCERT+
Proprietary cleaning process to reduce particulates	–	+
Packaged in cleanroom conditions	–	+
Cleanest product available on the market	–	+
Vial/closure combination tested by GC/MS and LC/MS	+	+
Batch specific test certificate with MS-chromatograms	+	+
Glass surface with low adsorption tendencies for all polar compounds	+	+
Closures contain very soft ultra-low bleed silicone septa with PTFE layer or bonded caps	+	+
Optimised for trace analysis	+	+

Specification certified, LC/GC certified, MSCERT and MSCERT+ kits Continued

Specification certified screw vial and cap kits

Performance level 3 for high performance analysis

Description
• Short thread screw kit • 12 mm × 32 mm (diameter × height) fixed conical glass insert • No marking • Specification certified
For use with short thread screw cap closure

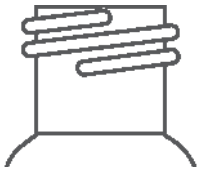
Key attributes	Bonded caps
	TPX vials
	0.2 mL with fixed glass insert
Vial color and material	Amber TPX
Vial total volume	200 µL
Vial usable volume	150 µL
Vial residual volume	1 µL
Cap color and material	Black screw cap
Septa color and material	White silicone/red PTFE
Septa thickness	1 mm
Ordering information	Cat. no.
100/pack	6PK1655

Specification certified, LC/GC certified, MSCERT and MSCERT+ kits Continued

Specification certified screw vial and cap kits Continued

Performance level 3 for high performance analysis

Description
• Short thread screw kit • 12 mm × 32 mm (diameter × height) flat bottom base • Marking spot • Specification certified
For use with short thread screw cap closure



Key attributes	GOLD-grade glass
	SureStop vials
	AVCS caps
Vial total volume	2 mL
Vial color and material	Clear glass
Cap color and material	Blue screw cap (PP)
Septa color and material	White silicone/red PTFE
Septa thickness	1 mm
Ordering information	**Cat. no.**
100/pack	6PKG592W

Learn more about our quality materials:
Thermo Scientific SureSTART products—Innovation

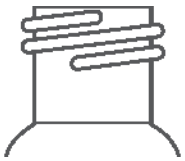
Analyzing polar compounds/compounds prone to glass adsorption?
We recommend using our GOLD-grade glass vials

Specification certified, LC/GC certified, MSCERT and MSCERT+ kits Continued

LC/GC certified kits: <2 mL vials with 9 mm caps

Performance level 3 for high performance analysis

Description
• Short thread screw kit • 12 mm × 32 mm (diameter × height) flat bottom base • Marking spot • LC/GC certified
For use with short thread screw cap closure



Key attributes	Bonded caps	AVCS caps
	Pre-slit septa	Pre-slit septa
Vial total volume	1.5 mL total recovery vials	0.3 mL fused insert vial
Vial color and material	Clear glass	Clear glass
Cap color and material	Grey screw cap (PP)	Grey screw cap (PP)
Septa color and material	Clear silicone/clear PTFE	White silicone/blue PTFE
Septa thickness	1 mm	
Ordering information	**Cat. no.**	**Cat. no.**
100/pack	6PCK993	6PCK71LVW

Specification certified, LC/GC certified, MSCERT and MSCERT+ kits Continued

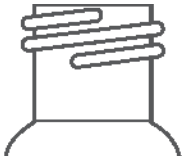
LC/GC certified kits: 2 mL vials with 9 mm caps

Performance level 3 for high performance analysis

Description

- Short thread screw kit
- 12 mm × 32 mm (diameter × height) flat bottom base
- Marking spot
- LC/GC certified

For use with short thread screw cap closure



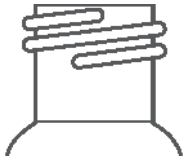
Key attributes	–	–	–	SureStop vials	SureStop vials	SureStop vials
	Bonded caps	Bonded caps	AVCS caps	AVCS caps	AVCS caps	AVCS caps
	Pre-slit septa	Pre-slit septa	Pre-slit septa	Pre-slit septa	–	–
Vial total volume	2 mL					
Vial color and material	Clear glass	Amber glass	Clear glass	Amber glass	Clear glass	Amber glass
Cap color and material	Grey screw cap (PP)	Grey screw cap (PP)	Blue screw cap (PP)	Blue screw cap (PP)	Blue screw cap (PP)	Blue screw cap (PP)
Septa color and material	White silicone/ red PTFE	White silicone/red PTFE	White silicone/ blue PTFE	White silicone/ blue PTFE	White silicone/ red PTFE	White silicone/ red PTFE
Septa thickness	1 mm					
Ordering information	**Cat. no.**	**Cat. no.**	**Cat. no.**	**Cat. no.**	**Cat. no.**	**Cat. no.**
100/pack	6PCK93W	6PCK76W	6PCK593W	6PCK576W	6PCK578W	6PCK575W

Specification certified, LC/GC certified, MSCERT and MSCERT+ kits Continued

LC/GC certified assembled kits: 2 mL vials with 9 mm caps

Performance level 3 for high performance analysis

Description
• Short thread screw kit • 12 mm × 32 mm (diameter × height) flat bottom base • Marking spot • LC/GC certified
For use with short thread screw cap closure



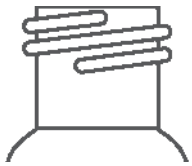
Key attributes	Bonded caps	AVCS caps
	Pre-slit septa	Pre-slit septa
Vial total volume	2 mL	2 mL
Vial color and material	Clear glass	Amber glass
Cap color and material	Grey screw cap (PP)	Grey screw cap (PP)
Septa color and material	White silicone/red PTFE	White silicone/red PTFE
Septa thickness	1 mm	
Ordering information	Cat. no.	Cat. no.
100/pack	6PCK193W	6PCK176W

Specification certified, LC/GC certified, MSCERT and MSCERT+ kits Continued

MSCERT kits

Performance level 3 for high performance analysis

Description
• Short thread screw kit • 12 mm × 32 mm (diameter × height) flat bottom base • Marking spot • MSCERT certified
For use with short thread screw cap closure



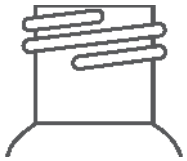
Key attributes	SureStop vials			
	AVCS caps			
	—	—	Pre-slit septa	Pre-slit septa
Vial total volume	2 mL			
Vial color and material	Clear glass	Amber glass	Clear glass	Amber glass
Cap color and material	Blue screw cap (PP)			
Septa color and material	Blue silicone/clear PTFE septa			
Septa thickness	1 mm			
Ordering information	Cat. no.	Cat. no.	Cat. no.	Cat. no.
100/pack	6PMSCK534W	6PMSCK535W	6PMSCK540W	6PMSCK541W

Specification certified, LC/GC certified, MSCERT and MSCERT+ kits Continued

MSCERT kits Continued

Performance level 3 for high performance analysis

Description
• Short thread screw kit • 12 mm × 32 mm (diameter × height) flat bottom base • Marking spot • MSCERT certified
For use with short thread screw cap closure



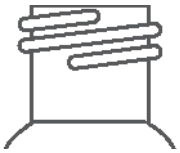
Key attributes	Pre-slit septa			
	Bonded caps			
	—	—	SureStop vials	SureStop vials
Vial total volume	—	2 mL	—	—
Vial color and material	Clear glass	Amber glass	Clear glass	Amber glass
Cap color and material	Blue screw cap (PP)			
Septa color and material	White silicone/beige PTFE			
Septa thickness	1 mm			
Ordering information	**Cat. no.**	**Cat. no.**	**Cat. no.**	**Cat. no.**
100/pack	6PMSCK641W	6PMSCK651W	6PMSCK601W	6PMSCK611W

Specification certified, LC/GC certified, MSCERT and MSCERT+ kits Continued

MSCERT+ kits

Performance level 3 for high performance analysis

Description
• Short thread screw kit • 12 mm × 32 mm (diameter × height) flat bottom base • Marking spot • MSCERT+ certified and pre-cleaned
For use with short thread screw cap closure



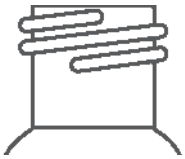
Key attributes	SureStop vials			
	AVCS caps			
	—	—	Pre-slit septa	Pre-slit septa
Vial total volume	2 mL			
Vial color and material	Clear glass	Amber glass	Clear glass	Amber glass
Cap color and material	Blue screw cap			
Septa color and material	Blue silicone/clear PTFE			
Septa thickness	1 mm			
Ordering information	**Cat. no.**	**Cat. no.**	**Cat. no.**	**Cat. no.**
100/pack	6PMCK34W	6PMCK35W	6PMCK40W	6PMCK41W

Specification certified, LC/GC certified, MSCERT and MSCERT+ kits Continued

MSCERT+ kits Continued

Performance level 3 for high performance analysis

Description
• Short thread screw kit • 12 mm × 32 mm (diameter × height) flat bottom base • Marking spot • MSCERT+ certified and pre-cleaned
For use with short thread screw cap closure



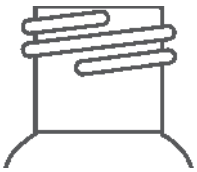
Key attributes	SureStop vials		Fused-insert	
	Bonded			
	—	—	—	Pre-slit septa
Vial total volume	2 mL	2 mL	0.3 mL	0.3 mL
Vial color and material	Clear glass	Amber glass	Clear glass	Clear glass
Cap color and material	Blue screw cap	Blue screw cap	Blue screw cap	Grey screw cap
Septa color and material	Clear silicone/clear PTFE			
Septa thickness	1 mm			
Ordering information	**Cat. no.**	**Cat. no.**	**Cat. no.**	**Cat. no.**
100/pack	6PMCK341W	6PMCK351W	6PMCK30LVW	6PMCK36LVW

Specification certified, LC/GC certified, MSCERT and MSCERT+ kits Continued

MSCERT+ kits Continued

Performance level 3 for high performance analysis

Description
• High recovery vial • Short thread screw vial • 12 mm × 32 mm (diameter × height) flat bottom base • MSCERT+ certified and pre-cleaned
For use with short thread screw cap closure



Key attributes	Total recovery
	Bonded
	Pre-slit
Vial total volume	1.5 mL
Vial color and material	Clear glass
Cap color and material	Grey screw cap
Septa color and material	Clear silicone/clear PTFE
Septa thickness	1 mm
Ordering information	Cat. no.
100/pack	6PMCK39TR

Specification certified, LC/GC certified, MSCERT and MSCERT+ kits Continued

TOC certified screw vial and cap kits

Performance level 3 for high performance analysis

Description

- TOC certification (20 ppb)
- TOC certification (10 ppb)

Our low-level certified vials for Total Organic Carbon testing and sampling are manufactured, tested and packaged by exacting standards.

Thermo Scientific™ TOC Certified Containers are certified to contribute <10ppb or < 20ppb TOC as background.

Vial description	40 mL (24 mm) screw glass vial	
Vial color and material	Clear	
Cap description	Bonded white screw cap (24-400) (PP)	
Septum color and material	White silicone/clear PTFE open top	
Septum thickness	3 mm	
Septum hardness	50 shore	
Certification level	TOC certification (20 ppb)	TOC certification (10 ppb)
Ordering information	Cat. no.	Cat. no.
72/pack	6PK40TOC20	6PK40TOC10

Specification certified, LC/GC certified, MSCERT and MSCERT+ kits Continued

EPA certified assembled kits: 40 mL with 24 mm caps

Performance level 3 for high performance analysis

Description

- Screw thread 24 mm (24-400)
- 28 mm × 95 mm (diameter × height) flat bottom base
- Processed and packaged under a registered ISO Quality Management System
- Laboratory certified to meet U.S. EPA Super Fund Standards in accordance with the latest edition of EPA's "Specifications and Guidance for Contaminant Free Sample Containers"
- Every case contains a Certificate of Analysis and is custody sealed to ensure reliable chain-of-custody

Vial description	40 mL (24 mm) screw glass vial
Vial color and material	Clear
Cap description	Bonded white screw cap (24-400) (PP)
Septum color and material	White silicone/clear PTFE open top
Septum thickness	3 mm
Septum hardness	50 shore
Ordering information	Cat. no.
72/pack	6ACK40COTAS

SureSTART vials and caps accessories

Manual crimpers and decrimpers

Manual crimpers and decrimpers

Achieve secure, repeatable crimps or remove seals with minimized risk of damage

Use Thermo Scientific™ SureSTART™ vial crimpers and decrimpers to manually attach or remove crimp caps from vials, respectively. These manual crimpers and decrimpers are available in 8 mm, 11 mm, 13 mm, and 20 mm sizes and allow you to easily seal or remove crimp caps reliably.**

Product description	Red manual crimper				Stainless steel manual crimper*
Suitable for	8 mm crimp caps	11 mm crimp caps	13 mm crimp caps	20 mm crimp caps	20 mm crimp caps
Ordering information	Cat. no.	Cat. no.	Cat. no.	Cat. no.	Cat. no.
1/pack	60180-CR8	60180-CR11	60180-CR13	60180-CR20	60180-CR20SS

*Crimper can be sterilized, for clean room applications

Product description	—	Black manual decrimper	Black manual decrimper	—	Black manual decrimper
Suitable for	—	11 mm crimp caps	13 mm crimp caps	—	20 mm crimp caps
Ordering information	Cat. no.	Cat. no.	Cat. no.	Cat. no.	Cat. no.
1/pack	—	60180-DCR11	60180-DCR13	—	60180-DCR20

**These crimper are not for flip top/flip off closures. Further specials are available on request or see our selection of electronic crimper on the following page.

Electronic crimpers and decrimping tools

Electronic crimpers and decrimpers

Our electronic Thermo Scientific crimper portfolio includes tools for 8 mm, 11 mm, 13 mm, and 20 mm crimp caps.

The tools provide all important settings like actual crimp power at one glance. The hand-held crimpers and decrimpers allow crimping of vials with aluminium, pressure release and bi-metal caps while remaining in most sample trays.

The crimp head selection includes also special crimp heads for 13 mm and 20 mm flip-off caps, further specials are available on request.

Attach or remove crimp vial seals with high sample security with a simple, one-handed push of a button.

Electronic hand-held crimpers and decrimpers

The battery charge icon on the color screen of the hand-held tools changes to red when battery is low. Each hand-held tool comes with fully rechargeable lithium ion battery and universal power supply/recharger and international plug adapters.

For steel caps and/or high numbers of crimp or decrimp processes per day we recommend the Thermo Scientific™ High-Power Crimp Station as it provides the highest crimping force independent from battery charge status.

Versatile and programmable crimp station

Electronic crimpers and decrimpers features and benefits

- Tools available for use with 8 mm, 11 mm, 13mm, and 20 mm crimp vial caps
- Available as handheld and high-power models
- These electronic vial crimpers also feature adjustable settings for best crimp results and a motor with extended lifetime and no particle emission
- Interchangeable crimper and decrimper jaw sets for Programmable Electronic High-Power Crimp Stations
- One hand operation with a simple push of a button
- Error message feedback after the incorrect crimping process
- Adjustable settings for best crimp results
- Actual crimp power setting displayed on the color screen.
- 8 different languages available—EN, CN, JA, DE, FR, ES, IT, KO
- Motor with extended lifetime and no particle emission
- Free hands for faster crimping operations with the adjustable Thermo Scientific™ Accessory Base for Programmable Electronic High-Power Crimp Stations. (ECRH-STAND)
- Each High-Power Crimper comes with 12-volt DC supply with power cord
- Crimp and Decrimp Heads for the High-Power Crimper are included in the kits or available separately

Electronic crimpers and decrimping tools
Continued

Electronic hand-held battery-operated crimper (black)
Generation 4

Product description	Electronic hand-held battery-operated crimper (black). Generation 4			
Suitable for	8 mm crimp caps	11 mm crimp caps	13 mm crimp caps	20 mm crimp caps
Ordering information	Cat. no.	Cat. no.	Cat. no.	Cat. no.
1/pack	60180-ECR8	60180-ECR11	60180-ECR13	60180-ECR20

Electronic hand-held battery-operated decrimper (black)
Generation 4

Product description	Electronic hand-held battery-operated decrimper (black). Generation 4			
Suitable for	—	11 mm crimp caps	13 mm crimp caps	20 mm crimp caps
Ordering information	Cat. no.	Cat. no.	Cat. no.	Cat. no.
1/pack	—	60180-EDCB11	60180-EDCB13	60180-EDCB20

Electronic crimper for FTFO and Flip-Off crimp closures

Product description	13 mm electronic crimper for FTFO	20 mm electronic Flip-Off crimper
Ordering information	Cat. no.	Cat. no.
1/pack	60180-ECR13FO	60180-ECR20FO

Electronic crimpers and decrimping tools
Continued

Electronic high-power programmable crimp station

Product description	Electronic high-power crimp station (without crimp heads) (black). Generation 2
Ordering information	Cat. no.
1/pack	60180-ECRHB

Electronic high-power programmable crimper kits

Product description	Electronic high-power programmable crimper kit		
Suitable for	11 mm	13 mm	20 mm
Include	11 mm crimp head 11 mm decrimp head	13 mm crimp head 13 mm decrimp head	20 mm crimp head 20 mm decrimp head
Ordering information	Cat. no.	Cat. no.	Cat. no.
1/pack	60180-ECRH11KIT	60180-ECRH13KIT	60180-ECRH20KIT

Electronic crimpers and decrimping tools
Continued

Accessories for electronic high-power programmable crimper

Product description	Accessory base for electronic crimpers: Height adjustable and solvent resistant (consists of base plate and bar)
Ordering information	Cat. no.
1/pack	ECRH-STAND

Product description	8 mm crimp head	11 mm crimp head	13 mm crimp head	20 mm crimp head
Ordering information	Cat. no.	Cat. no.	Cat. no.	Cat. no.
1/pack	ECMJ-8	ECMJ-11	ECMJ-13	ECMJ-20

Product description	13 mm Flip-Off crimp head	20 mm Flip-Off crimp head
Ordering information	Cat. no.	Cat. no.
1/pack	ECMJ-13FO	ECMJ-20FO

Accessories for electronic high-power programmable decrimper

Product description	11 mm decrimp head	13 mm decrimp head	20 mm decrimp head
Ordering information	Cat. no.	Cat. no.	Cat. no.
1/pack	ECDJ-11	ECDJ-13	ECDJ-20

WebSeal Performance level 1 products

Well plates and mats

Performance level 1 for everyday analysis

A full selection of high quality sample well plates for your UHPLC, LC and GC applications

We offer a comprehensive range of Thermo Scientific™ 96- and 384- well plates for complex and routine analyses in high-throughput screening laboratories.

We offer a broad selection of polypropylene (PP) well plates that meet ANSI and SBS standards with different sealing options and fit most manifolds, autosamplers, and robots.

Handle more samples in less time

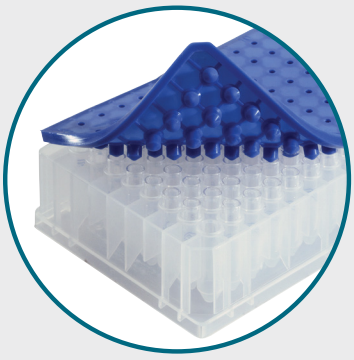
- Low volume and high recovery cavity

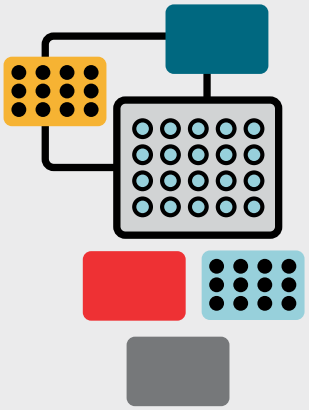
Solutions for all applications

- Chromatography tested for solvent compatibility and inertness

Ultimate sample security

- Low-leachable, high-purity materials and manufacturing processes





Well plates and mats Continued

Performance level 1 for everyday analysis

WebSeal well plates

Plastic, non-coated, non-sterile, chromatography tested

Description

- Thermo Scientific WebSeal well plates are manufactured from a GC/MS tested polypropylene material
- Microplates are chemically and thermally resistant and will tolerate temperatures from –80° C to +121°C
- SBS and ANSI standard footprint design for broad instrument compatibility
- Microplates are ideal for pharmaceutical applications, sample collection and storage, combinatorial chemistry and HTS applications
- U- and V- bottom wells for optimal sample recovery

60180-P130

60180-P104

60180-P105

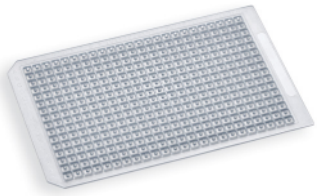
Description	Total height	Well format	Total volume (µL)	Working volume range (µL/well)	Cat. no.	Pack size
96 well microplate, round well	14.4	V-Shape, 8 mm diameter	450	10-400	60180-P100	20
					60180-P130	120
	14.5	V-Shape, 8 mm diameter	500	20-500	60180-P102	10
					60180-P132	12
			2000	50-1900	60180-P134	60
96 well plates, round well	26.5	U-shape, 8 mm diameter, mid height plate	1100	50-900	60180-P154	50
	31.6		1300	50-1000	60180-P103	5
					60180-P133	50
	45.0	U-shape, 8 mm diameter, deep-well plate	2000	50-1900	60180-P104	5
					60180-P124	50
96 deep well plate, square well	31.0	U-shape, square, mid height plate	1600	50-1300	60180-P155	96
	44.0	V-Shape, square, deep-well plate	2000	50-1900	60180-P105	5
					60180-P135	50
384 well microplate	15.5	V-Shape, square, micro titer plate	145	4-120	60180-P109	10
					60180-P129	100
	22.0	V-shape, square, mid-height plate	252	5-240	60180-P107	5
	22.0	V-shape, square, mid-height plate			60180-P127	100

WebSeal mats and sealing tapes, non-sterile

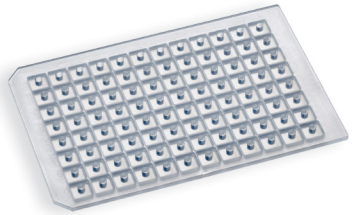
For plates with round and square wells of 8 mm or 384 well plates

Description
• Mats manufactured of EVA (Ethylene-vinyl acetate) or pure silicone with or without PTFE coating
• The footprint permits plates to be securely stacked without robotic arm interference
• Eliminates cross contamination of samples
• Dry heat autoclavable (only silicone mats) with excellent chemical compatibility, withstand low temperature to -80°C
• Resists coring and tearing
• Superior resealability after multiple injections
• Available pre-slit for easy penetration and reduced vacuum formation
• Sealing tapes minimize evaporation and protect samples from contamination and spilling.
• Adhesive seals effectively seal all microplate formats
• Wide range of adhesive seals for every assay
• Thin, lightweight tapes seal onto the plate with a convenient, handheld applicator (available separately, cat. no. 60180-M950)

60180-M126



60180-M121



60180-M123

60180-M999

Well plates and mats Continued

Performance level 1 for everyday analysis

WebSeal mats and sealing tapes, non-sterile Continued

For plates with round and square wells of 8 mm or 384 well plates

Description	Color	Material	Well design	Pre-slit	Cat. no.	Pack size
WebSeal mats CLR silicone mat, round well	Clear	Silicone	96 round well, 8 mm diameter, flat base with cross	No	60180-M184	50
WebSeal mats (alcohol resistant), round well	Clear	EVA	96 round well, 8 mm diameter	No	60180-M101	5
					60180-M171	50
WebSeal CLR silicone mat, round well	Clear	Silicone	96 round well – flat base, 8 mm diameter, large penetration area	No	60180-M134	5
				Yes	60180-M183	
WebSeal mats (solvent resistant), round well	Blue	Silicone/ PTFE		No	60180-M102	
				Yes	60180-M103	
WebSeal mats (alcohol resistant), square well	Clear	EVA	96 square well - flat base	No	60180-M177	5
					60180-M178	50
WebSeal CLR silicone mat, square well	Clear	Silicone	96 square well – flat base, 8 mm diameter, large penetration area		60180-M121	
				Yes	60180-M123	5
			96 square well – flat base, 8 mm diameter, flat base with cross	No	60180-M185	50
			384 square well		60180-M126	5
				Yes	60180-M150	
			384 square well, flat base with cross	No	60180-M186	50
Sealing tape, -40°C – 90°C	Clear	PE/silicone	N/A		60180-M142	100
Sealing tape, -70°C – 100°C	Clear	PES/silicone			60180-M143	
Sealing tape, -80°C – 120°C	Silver	Aluminum/ silicone		N/A	60180-M144	
Sealing tape with SRA (synthetic rubber adhesive)	Clear	Polyolefin/ rubber		No	60180-M145	
Re-sealing tape with 3 layer no adhesive at cavity area	Clear	PET/silicone/ PET		Yes	60180-M146	
					60180-M176	25
Hand held sealing tape applicator	Gold	N/A		N/A	60180-M950	2
Hand held mat applicator	Black				60180-M999	1
WebSeal cutter for vial removal	Silver	N/A	N/A	N/A	60180-M975	1

WebSeal Performance level 2 products

Well plates and mats

Performance level 2 for high-throughput applications

WebSeal well plates

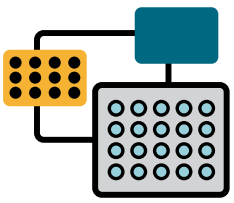
Plastic, non-coated, non-sterile, certified

Description
• Polypropylene microplates are manufactured from ultra low bleed high purity basis resin • Plates are tested by GC-MS and LC/MS for organic extractables • Microplates are chemically and thermally resistant and will tolerate temperatures from -80°C to +121°C • SBS and ANSI standard footprint design for broad instrument compatibility • Microplates are ideal for pharmaceutical applications, sample collection and storage, combinatorial chemistry and HTS applications • U- and V- bottom wells for optimal sample recovery, Total V-plates for low volume applications

60180-P201

60180-P202

60180-P204



Well plates and mats Continued

Performance level 2 for high-throughput applications

WebSeal well plates

Plastic, non-coated, non-sterile, certified

Description	Total height	Well format	Total volume (µL)	Working volume range µL/well	Cat. no.	Pack size
96 well microplate, low volume	15.0	Total V-shape, 5.6 mm diameter	100	5-80	60180-P210	50
96 well microplate, round well	14.7	Flat bottom, 7 mm diameter	350	10-300	60180-P205	100
				10-300	60180-P215	10
		U-shape, 7 mm diameter	270	10-250	60180-P206	100
					60180-P216	10
		V-shape, 7 mm diameter	220	10-190	60180-P207	100
					60180-P217	10
96 well mid height plates, round well	33	U-shape, 7 mm diameter	1000	50-900	60180-P228	50
	41.6	U-shape, 7 mm diameter	1200	50-1100	60180-P201	50
	41.6				60180-P211	5
96 deep well plate, square well	44.4	V-shape, 8 mm diameter	2000	50-1900	60180-P202	50
					60180-P212	5
384 well microplate	14.4	U-shape, square, micro titer plate	58	2-35	60180-P203	60
					60180-P213	10
	30.2	V-shape, square, deep well plate	300	5-240	60180-P204	48
					60180-P214	6

Well plates and mats Continued

Performance level 2 for high-throughput applications

WebSeal mats, non-sterile

For certified well plates with 7 mm round well cavities,
8 mm square wells or 384 plates

Description

- Manufactured of pure silicone with or without PTFE coating
- The footprint permits plates to be securely stacked without robotic arm interference
- Eliminates cross contamination of samples
- Dry heat autoclavable with excellent chemical compatibility, withstand low temperature to -80°C
- Resists coring and tearing
- Superior resealability after multiple injections
- Available pre-slit for easy penetration and reduced vacuum formation

60180-M149

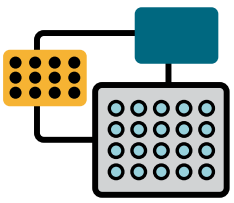
60180-M121

60180-M123

60180-M112

60180-M111

60180-M120



Well plates and mats Continued

Performance level 2 for high-throughput applications

WebSeal mats, non-sterile Continued

For certified well plates with 7 mm round well cavities, 8 mm square wells or 384 plates

Description	Color	Material	Well design	Pre-slit	Cat. no.	Pack size
WebSeal mat (alcohol resistant), round well	Clear	EVA	96 round well, 7 mm diameter	No	60180-M179	100
WebSeal CLR silicone mat, round well		Silicone	96 round well – flat base, 5.6 mm diameter, cross	No	60180-M210	50
			96 round well – flat base, 7 mm diameter, large penetration area	No	60180-M105	5
				Yes	60180-M116	
			96 round well – 7 mm diameter, step, small penetration area	Yes	60180-M113	
				No	60180-M149	
WebSeal CLR silicone mat, square well			96 square well – flat base, 8 mm diameter, flat base with cross	No	60180-M185	50
			96 square well – flat base, 8 mm diameter, large penetration area	No	60180-M121	5
				Yes	60180-M123	
			384 square well for 384 well plates	No	60180-M126	
				Yes	60180-M150	
			384 square well, flat base with cross for 384 microtiter plates	No	60180-M186	50
WebSeal mat (solvent resistant), round well	Blue	Silicone/ PTFE	96 round well – flat base, step, 7 mm diameter	No	60180-M111	5
				Yes	60180-M112	
WebSeal mat (solvent resistant), square well			96 square well – flat base, 8 mm diameter, large penetration area	No	60180-M120	
				Yes	60180-M122	
			384 square well for 384 well plates	No	60180-M125	
				Yes	60180-M131	
WebSeal mat			96 round well – dome base, 7.2 mm diameter	No	60180-M108	
				Yes	60180-M115	

WebSeal Performance level 3 products

Well plates and mats

Performance level 3 for high performance analysis

WebSeal Plate+ plates

Glass coated microplates

Description

- High quality polypropylene microplates coated with 200nm thick layer of silicon dioxide
- Plate+ provides microplates with a chemical resistance similar to glass while retaining the advantages of polypropylene
- Cost-effective alternative to inserted glass vials
- Excellent for applications where plastic microplates are not applicable
- Plate+ is chemically and thermally resistant and will tolerate temperatures from -80° C to +80° C
- Lightweight, precision molded, cost-effective alternative to solid glass plates

Description	Total height	Well format	Total volume (µL)	Working volume (µL)	Cat. no.	Pack size
96 well microplate, round well	14.7	U-shape, 7.0 mm diameter	300	250	60180-P330	10
		V-shape, 7.0 mm diameter	220	190	60180-P332	10
		Flat bottom, 7.0 mm diameter	370	300	60180-P334	10
96 well mid height plate, round well	14.6	V-shape, 7 mm diameter	220	190	60180-P333	100
	26.5	U-shape, 8 mm diameter	1100	50 to 900	60180-P350	10
	33	U-shape, 7 mm diameter	1100	50 to 900	60180-P343	10
	40.6	U-shape, 7.2 mm diameter	1.2 mL	1.0 mL	60180-P336	10
96 deep well plate, square well	14.4	V-shape, 8 mm diameter	145	100	60180-P341	100
	43.7	V-shape, 8 mm diameter	2.4 mL	2.0 mL	60180-P338	10
384 well microplate	15.0	Square-rounded, flat, micro titer plate	120	90	60180-P340	10
	22.0	Square-rounded, U-shape, deep well plate	240	180	60180-P342	6

Well plates and mats Continued

Performance level 3 for high performance analysis

WebSeal glass inserted plate kits

With 96-position mats

Description
• Convenient wellplate kits with pre-assembled glass vials
• Replacement parts for kits available separatel
• Unique cutting tool allows removal of individual samples with the seal in place, eliminating cross contamination
• Mats with solid plugs are used for sample storage

60180-K100

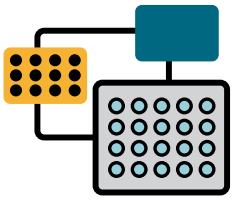
60180-K101

60180-K104

60180-K105

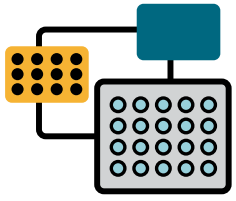
60180-K106

60180-K107



WebSeal glass inserted plate kits Continued
With 96-position mats

Kit type	Vial material	Total volume (µL)	Vial dimension (mm)	Profile	Mat material	Total height (mm)	Vial cat. no.	Mat cat. no.	Kit cat. no.	Pack size
96 well small volume microplate with sealing mat	Clear glass	500	6.5 x 31	Taper	Silicone/ PTFE	32.0	60180-V100	60180-M151	60180-K100	5
96 well small volume microplate with sealing mat and cutting tool	Clear glass	700	6.5 x 41.4	Taper	Silicone/ PTFE	44.0	60180-V101	60180-M151	60180-K101	5
	Clear glass	1100	7.45 x 38.5	Round	Silicone/ PTFE	41.5	60180-V104	60180-M153	60180-K104	5
96 deep well plate with sealing mat	Clear glass	1500	7.25 x 60.5	Round	Silicone/ PTFE	64.5	60180-V106	60180-M153	60180-K106	5
96 square well plate with sealing mat	Clear glass	1000	7.6 x 45	Constricted	Silicone/ PTFE	47.3	–	60180-M111	60180-K107	1
96 square well plate with sealing mat	Clear glass	1000	7.6 x 45	Constricted	Precut	47.3	—	60180-M112	60180-K108	1



WebSeal kit accessories

WebSeal kit accessories

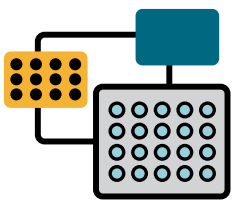
WebSeal 96 well mats
Silicone/PTFE

60180-M151

60180-M154

60180-M975

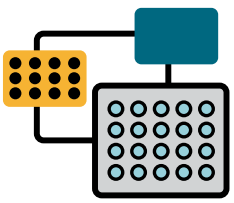
Kit type	Details	Pre-slit	Cat. no.	Pack size
96 well WebSeal mat	60180-K100, 60180-K101, 60180-K103	No	60180-M151	5
		Yes	60180-M152	
96 well WebSeal mat	60180-K104, 60180-K106	No	60180-M153	
		Yes	60180-M154	
96 well WebSeal mat, welled plugs	60180-K107	No	60180-M111	
	60180-K108	Yes	60180-M112	
WebSeal cutter for vial removal	—	–	60180-M975	1



WebSeal kit accessories
Continued

Plate vials
For 96 wells

Kit type	Vial material	Total volume (µL)	Vial dimension (mm)	Profile	Cat. no.	Pack size
Micro titer plate vial for 96 wells	Clear glass	500	6.5 x 31	Taper	60180-V100	500
		700	6.5 x 41.4		60180-V101	
	Clear glass	1100	7.45 x 38.5	Round	60180-V104	
Deep well plate vial for 96 wells		1500	7.25 x 60.5		60180-V106	



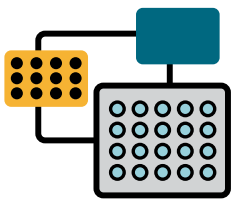
WebSeal kit accessories
Continued

Well plates and racks

60180-P400

60180-P401

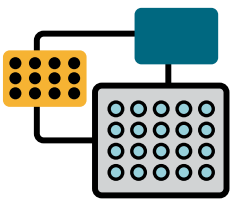
Kit type	Vial material	Total volume (µL)	Profile	Total height (mm)	Cat. no.	Pack size
Plastic 96 round well micro titer plate (60180-K100)	—	800	V-shape, 7 mm diameter	31.5	60180-P400	5
PP 96 round well micro rack (60180-K101, K102)	PP	—	U-shape, 7 mm diameter	41.6	60180-P211	
PP 96 well square well plate (60180-K107/108)	PP	2000	U-shape, square	44.0	60180-P403	1
PP 96 well square well plate (60180-K106)			V-shape, square		60180-P212	5



WebSeal kit accessories
Continued

Plate vials and accessories
For 96 wells

Kit type	Vial material	Total volume (µL)	Vial dimension (mm)	Profile	Septum	Cat. no.	Pack size
Deep well plate vial for 96 wells	Clear glass	350	6 x 42.5	Taper	—	60180-V109	960
Square well vial for 96 Wells		1000	7.6 x 45.9	Round	—	60180-V110	960
PE cap, red, center hole for 96 Well Plate Inserts	—	—	—	—	Silicone/ PTFE, pre-slit, 45°	60180-C100	96
Micro-tube-rack-system, positions (for 60180-K104)		—	—	—	—	60180-P407	96



WebSeal kit accessories
Continued

WebSeal clear glass inserted plate kits
With individual closures

Description

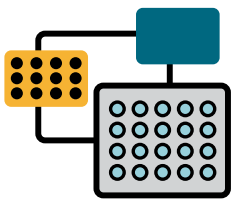
- 96 position block systems with glass inserts are used when the pure PP block is not inert enough
- Inserts manufactured from clear, Type 1 Class A or amber, Type 1 Class B borosilicate glass
- Inserts are sealed individually with a PE Cap Seal and can be easily removed and used externally without risk of losing sample
- The products can be obtained as individual components or as completely assembled, ready-to-use convenience blocks

60180-K200

60180-K201

60180-K203

Kit type	Total volume (µL)	Vial dimension (mm)	Profile	Septum	Vial cat. no.	Cap cat. no.	Kit cat. no.	Pack size
96 well microplate	100	5.7 x 15.5	Flat bottom	Silicone/ PTFE, pre-slit, 45°	60180-V108	60180-C100	60180-K200	1
96 deep well Plate	350	6 x 42.5	Taper		60180-V109		60180-K201	
96 square well plate	1000	7.6 x 45.9	Round	Silicone/ PTFE, 45°	60180-V110		60180-K202	
				Silicone/PTFE, pre-slit, 45°			60180-K203	



WebSeal kit accessories
Continued

Barcoded well plates
For Thermo Scientific™ Vanquish™ HPLC and UHPLC systems

Description

- These well plates provide advanced sample security and sample integrity.
- This secure choice offers a tested portfolio for chromatography applications
- Barcoded well plates have an assured plate fit and a pre-applied orientation barcode in the correct reader position; therefore there is no risk of placing the plate incorrectly
- The secured side orientation in the autosampler alleviates the risk of starting the sequence in the wrong plate orientation
- The instrument controls plate orientation and verifies the plate before implementing the sequence

60180-P206-216B

60180-P207-217B

Description	Total height	Well format	Total volume µL/well	Working volume range µL/well	Cat. no.	Pack size
96 well microplate, round well, barcoded	14.7	U-shape, 7 mm diameter	270	10-250	60180-P206B	100
					60180-P216B	10
		V-shape, 7 mm diameter	220	10-190	60180-P207B	100
					60180-P217B	10
96 well mid height plate, round well, barcoded	31.6	U-shape, 8 mm diameter	1300	50-1000	60180-P103B	5
					60180-P133B	50
	41.6	U-shape, 7 mm diameter	1000	50-900	60180-P201B	
					60180-P211B	5
96 deep well plate, square well, barcoded	44.0	V-shape, square	2000	50-1900	60180-P105B	
					60180-P135B	50

For mats see previous pages with mats for 7 or 8 mm cavity diameter

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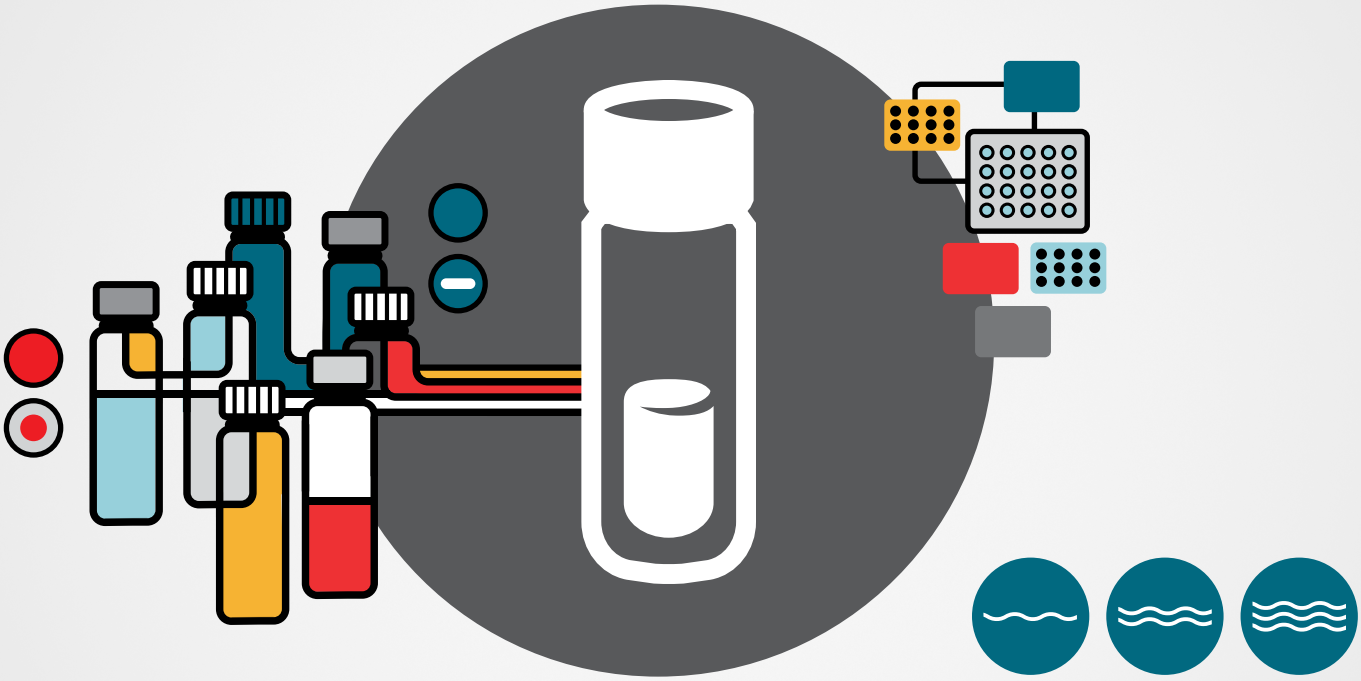

Expect reproducible results with sample prep, columns and vials

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