



Agilent
CrossLab

From Insight to Outcome

Agilent Vials and Sample Containment Solutions

CONSISTENT QUALITY
MAXIMUM PRODUCTIVITY



Agilent Technologies

IT'S MORE THAN JUST A VIAL... IT CAN AFFECT YOUR RESULTS AND RETURN ON INSTRUMENT INVESTMENT

It's easy to think of vials as simple, inexpensive components that don't affect your results. However, substandard vials, caps, and septa can lead to sample loss, contamination, and damaged autosampler needles.

Agilent understands that vials are a critical part of your analytical workflow—no less important than the column or the instrument. That is why Agilent vials are designed to meet the high standards you have come to expect from every Agilent product—including:

- Guaranteed consistent performance from lot-to-lot
- Unsurpassed rigor in quality control and manufacturing
- Better value for your money
- Easy selection based on volume, sample type, and instrument

Stop unexpected peaks from impacting your results

With Agilent vials, you can rest assured that your *sample* is getting measured—not the indirect effects of the analytical flow path. No other supplier can promise such a comprehensive solution for getting your samples from injection to detection with minimal interference to maximize your productivity.

Think all vials are created equal? Think again!

Only Agilent vials have these quality and performance statistics:



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127
(and growing)

Countries we deliver to across the world, from Albania to Vietnam

33/51

Best in glass: All vials are made of type 33-51 coefficient of expansion for top performance

10+

Instrument brands with which Agilent vials/caps are compatibility tested

50%

Faster crimp speed: Our electric crimper lets you crimp your vial, not your style

120
meters

Vials are small... but are manufactured in a facility as big as an aircraft hangar!

SAVE MONEY, AND ELIMINATE DRAINS ON YOUR LAB'S PRODUCTIVITY

Why gamble with your results?

Using poor-quality vials (or the wrong vials for your application) can cause sequence problems, unnecessary downtime, expensive repairs, and the loss of precious samples

Agilent vials are the only vials that deliver time-saving—and cost-saving—advantages like these:

- **Reduced labor:** Our short-thread screw-top vials make screwing/unscrewing the cap up to 30% faster, while lowering your risk of repetitive strain injury.
- **Less interference:** Agilent vials are made from analytical grades 33 and 51 glass, which will not remove analytes from sample matrixes.
- **Fewer septa issues:** Agilent septa are continually being improved to limit leaching, coring, sticking, push-through, hardness, and adsorption/absorption.
- **Lower risk of breakage:** Thicker glass walls help eliminate cracking during clamping, and a unique packing box keeps vials safe during transit and storage.
- **Easier crimping:** Our high-powered crimper lets you crimp your vials in half the time it takes using a manual crimper.
- **Streamlined ordering:** From vials, to columns, to supplies for any major instrument brand, you can find everything you need from one trusted supplier.
- **Fast delivery:** Our worldwide distribution centers can make sure your vial order reaches your lab within 48 hours.
- **FREE 24/7 technical support:** Our team is always available to provide fast, expert assistance, should any issues arise.

Agilent Certified Vials: ultimate integrity and consistency

Only Agilent Certified Vials are shipped with a certificate confirming that they are:

- Produced in an ISO 9001 certified environment
- Manufactured and packaged to reduce contamination, which can cause ghost peaks
- Pierce tested with Agilent needles and syringes
- Inspected with automated vision systems
- Compatible with the autosampler's gripping and injection mechanisms

"Bargain" vials can be made from type 70 or 71 COE, which has high metal content that can remove analytes—or destabilize the analyte through alkyl leaching. Agilent vials are made from type 33 and 51 glass, so you can be confident your results will not be compromised.

ASTM E438 Type I Class A Linear COE	ASTM E438 Type I Class B Linear COE
32 – 33 (+/- 1.5)	48 - 56 (+/- 2.0)

Coefficient of expansion (COE) compliance – 0-300C, cm/cm x CX10-7 (acceptable expansions for analytical chromatographic purposes).

To learn more about glass quality, download our free white paper at: www.agilent.com/chem/vialsresources



Better injections, better chromatography

Agilent GC Autosamplers

From simple dilutions to complicated derivatizations, Agilent GC autosamplers exceed the precision and accuracy required for routine injections. Learn more:

www.agilent.com/chem/GCsampleintro

Agilent LC Autosamplers

Agilent 1200 Infinity Series autosamplers meet a wide variety of needs, ranging from general HPLC to high sample throughput. Micro systems, ultra-high-performance systems, preparative systems, and manual injection systems are also part of the portfolio. Learn more:

www.agilent.com/chem/lc-injection-systems



Agilent 7693A ALS Vials tray.



Tips & Tools:

2 mL high-recovery screw-top vials can be used with all autosamplers.

Don't have an Agilent instrument? No problem.

Agilent vials are manufactured to perform seamlessly with a variety of analytical instruments—regardless of make or model. You also get the benefits of easy ordering, technical support, and fast worldwide delivery.

Use the table on the next page to determine which Agilent vials are compatible with your instrument manufacturer and model.



Agilent vials are suitable for all major instrument brands

Make productivity happen—regardless of application or instrument vendor

Improve cycle time, eliminate variability, and enhance your results at every step of your workflow.

- **GC, GC/MS, or GC Headspace:** Improve sensitivity and selectivity for complex samples and demanding environments. Go to: www.agilent.com/chem/productivityGC

Inert GC flow path supplies: Lower detection limits and quantify active analytes with confidence. Go to: www.agilent.com/chem/inert

- **LC and LC/MS:** Confidently perform discovery, quantitation, and target compound analysis. Go to: www.agilent.com/chem/productivityLC

- **Spectroscopy:** Get the most from your elemental analysis. Go to: www.agilent.com/chem/spectro

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The right vial is just a few clicks away.

Use our online selection tool at www.agilent.com/chem/selectvials

Agilent Vial Compatibility

Manufacturer	Autosampler	8 mm Screw Top	9 mm Screw Top	15 x 45 mm, 4 mL	11 mm Crimp Top	Headspace
Waters	717 Plus				◆	
	Acquity	◆	◆		◆	
	Alliance 2690	◆	◆			
	CapLC	◆	◆		◆	
	WISP			◆		
Shimadzu	AOC14/1400	◆	◆		◆	
	AOC-20		◆	◆	◆	
	AOC 88/9	◆	◆		◆	
	AOC-5000	◆	◆		◆	Magnetic
	HSS-2B/4B					◆
	LC 2010	◆	◆		◆	
	SIL-6A/6B/9A	With flange				
	SIL-10A, SIL-10Ai, SIL-10AxL	◆	◆			
	SIL-HT/10ADVP	◆	◆		◆	
Thermo Scientific/Dionex	A-200S/AS 150/800/8000	◆	◆		◆	
	AS 3000/TRACE GC		◆		◆	
	ASI-100	◆	◆		◆	
	SURVEYOR LC	◆	◆		◆	
	TriPlus		◆		◆	
	WPS-3000RS	◆	◆		◆	
	WPS-3000SL	◆	◆		◆	
Bruker, Varian*	8034/8035/8100/8200	◆	◆		◆	
	9095/9100	◆	◆		◆	
	CP-8410		◆	◆	◆	
	Genesis					◆
PerkinElmer	Autosystem GC/XL/AS-2000	◆	◆	◆	◆	
	Clarus 500/600		◆		◆	
	HS16/40					◆
	Integral 4000	◆	◆		◆	
	ISS-100/200	◆	◆		◆	
	LC 600 42 vial tray		◆			
	LC Plus	◆	◆	◆		
TurboMatrix 40/110					◆	
CTC Analytics	CombiPal		◆	◆	◆	Magnetic

*Formerly Varian systems, now Bruker products

The right vial is just a few clicks away. Use our online selection tool at www.agilent.com/chem/selectvials



Agilent CrossLab

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Agilent CrossLab, the world leader in innovative laboratory services, software, and consumables, provides a direct connection to a global team of experts who deliver vital, actionable insights at every level of the lab environment. Our insights drive improved economic, operational, and scientific outcomes. Agilent CrossLab. From insight to outcome.

www.agilent.com/crosslab

From athletic drug testing to ice core analysis... real-life problems, solved

Active Pharmaceutical Ingredients (APIs) manufacturing company

Problem: The customer was experiencing retention time shifting, high RSD, peak tailing, poor resolution, and asymmetric peaks.

Diagnosis: Excessive void volume.

Solution: Use Agilent vials, tubing, ferrules and filters. We showed the customer how to tighten vials securely, demonstrated proper tube-cutting techniques, and recommended the use of standard tubing to prevent void volume.

Outcome: Increased productivity and cost savings.

High-volume environmental contract lab

Problem: Instruments were not completing overnight sample runs—costing the lab \$25K in missed deadlines and penalties.

Diagnosis: The purchasing department changed the cap supplier without notifying the lab—resulting in septa sticking and autosampler needle failure.

Solution: Go back to using Agilent caps and septa.

Outcome: No more problems with septa sticking or needle failure.

Small-molecule pharmaceutical company

Problem: Reduced analyte response caused a two-week delay, costing the company \$100K, and damaging their reputation.

Diagnosis: Poor-quality vials made with glass expansion 70/71, which has a high metal content that can remove compounds from the matrix.

Solution: Switch to Agilent vials and caps, which use only analytical grades 33 and 51 glass.

Outcome: Improved productivity and more consistent performance.

Environmental lab

Problem: The customer was unable to complete a critical study, because they didn't trust their results. Vial contamination was suspected.

Diagnosis: The vials were contaminant-free, but the customer's method needed modification.

Solution: Implement a new Agilent-suggested workflow.

Outcome: Customer saved \$50K in troubleshooting costs—and completed their study with reliable results.

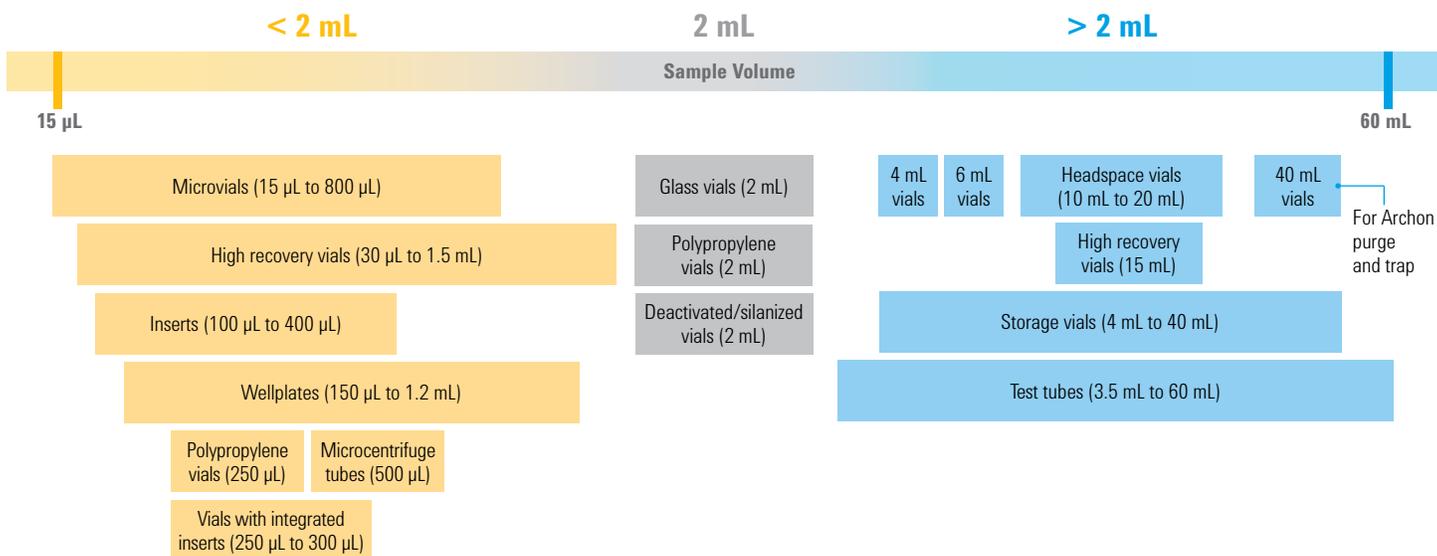
Best of all... the troubleshooting and technical support described here were all performed **free of charge**.

PROTECT SAMPLE INTEGRITY BY CHOOSING THE BEST VIAL FOR YOUR APPLICATION

By matching our vial to your application, you can contain samples with minimal interference from the surrounding environment, and ensure optimal sample interface with your analytical platform. To help you get started, we've answered the most common questions about vial selection below.

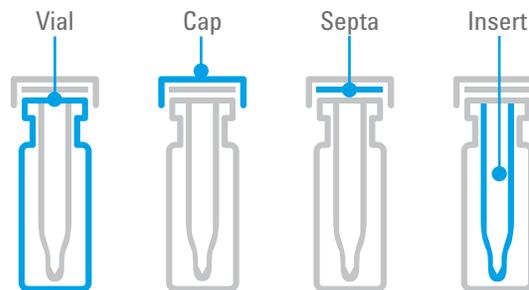
Which vial is best for my sample size?

There are several factors to consider, including analysis type, analytical platform, and sample availability. Agilent vials offer the same highly consistent performance across the entire size range, from 15 µL up to 60 mL. Use the diagram below as a starting point for choosing the size you need based on your sample volume.



How do vial components factor in?

Vial caps, septum, and inserts prevent leakage and sample loss due to evaporation. Like Agilent vials, Agilent vial components receive the same high level of attention during design and manufacture. They also work seamlessly with Agilent vials so complex runs proceed smoothly.



How do I choose the right closure?

There are three major factors to consider when selecting a closure.

1. Compatibility of septa and sample

Make sure the septa you choose are chemically compatible with your sample and solvent. Chemical compatibility can vary, based on factors such as solvent concentration, molecular weight, and temperature.

During manufacture, Agilent septa undergo thermal and chemical conditioning to reduce siloxane bleed, which can occur when the septa material is stressed during heating, solvent interaction, or piercing by the autosampler needle.

Septa Chemical Compatibility

	PTFE	PTFE/Silicone	PTFE/Silicone/PTFE*	PTFE/Red Rubber	Fluoroelastomer	PTFE/Butyl
Acetonitrile	♦	♦	♦	♦		♦
Hydrocarbons (hexane, heptane, methane)	♦		♦	♦	♦	
Methanol	♦	♦	♦	♦		♦
Benzene	♦		♦		♦	
THF	♦		♦			
Toluene	♦		♦			
DMF	♦	♦	♦			♦
DMSO	♦	♦	♦			♦
Ether	♦	♦	♦			
Chlorinated Solvents (methylene chloride)	♦		♦		♦	
Alcohols (ethanol)	♦	♦	♦	♦	♦	♦
Acetic Acid	♦	♦	♦			♦
Acetone	♦	♦	♦			
Phenol	♦	♦	♦		♦	♦
Cyclohexane	♦		♦	♦	♦	

*PTFE/silicone/ PTFE has the same chemical compatibility of PTFE ONLY UNTIL PUNCTURED.



Tips & Tools:

For highly sensitive samples, we recommend PTFE-lined ("sandwiched") septa, because the PTFE layers act as a chemically resistant barrier.



2. Compatibility of septa and cap

Use the chart below to determine the right cap and septa combination, based on your application. Note: septa that are too thick can prevent the cap from fitting properly on the vial.

If siloxane interference is a concern for your application, we recommend Agilent Certified caps and Agilent Certified bonded caps. They provide the industry's lowest bleed profile for better analytical sensitivity, reduced downtime, and improved productivity.

Cap and Septa Compatibility

	High Performance Septa	Thin PTFE	PTFE/Silicone*	PTFE/Silicone/PTFE*	PTFE/Red Rubber	Fluoroelastomer	Butyl
Temperature range	40 to 300 °C**	Up to 260 °C	-40 °C to 200 °C	-40 °C to 200 °C	-40 °C to 90 °C	-40 °C to 260 °C	-50 °C to 150 °C
Use for multiple injections	No	No	Yes	Yes	No	No	No
Price	Most expensive	Very economical	Economical	Most expensive	Very economical	Economical	Economical
Resistance to coring	Excellent	None	Excellent	Excellent	None	None	None
Recommended for storage	No	No	Yes	Yes	No	No	No
Best for	High temperature headspace applications	Superior chemical inertness, short cycle times, and single injections	Most common HPLC and GC analyses, not as resistant to coring as P/S/P	Superior performance for ultra analysis, repeat injections, internal standards	Chlorosilanes more economical option for single injections	Chlorinated solvents, higher temperatures	Organic solvents, acetic acids; impermeable to gasses

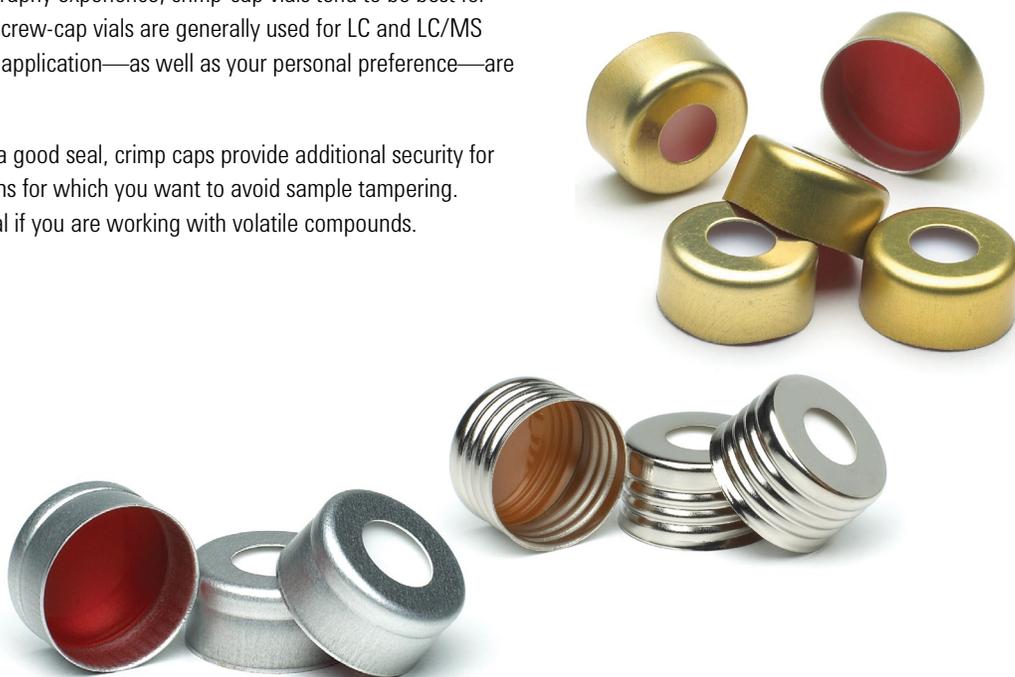
*Agilent silicone is peroxide cured, making it more inert and less likely to interact with samples

** For up to one hour

3. Crimp cap vs. screw cap

Based on our decades of chromatography experience, crimp-cap vials tend to be best for GC and GC/MS applications, while screw-cap vials are generally used for LC and LC/MS applications. However, your specific application—as well as your personal preference—are also factors to consider.

Although both types of caps deliver a good seal, crimp caps provide additional security for food, forensics, and other applications for which you want to avoid sample tampering. We also recommend a crimp-cap vial if you are working with volatile compounds.



What about more specialized applications?

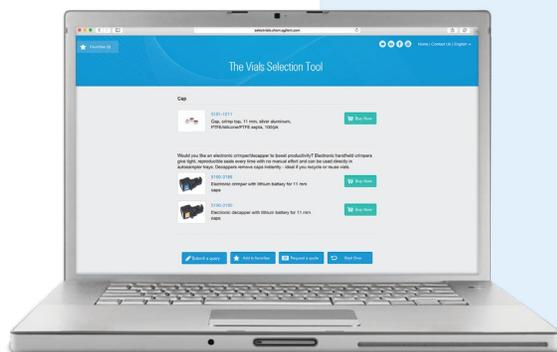
Deactivated vials

For pesticides, semivolatiles, and other highly sensitive samples—as well as samples that are prone to sudden pH shifts—deactivated vials are best, because their surface is more hydrophobic and inert. We also recommend deactivated vials for exacting applications, such as mass spectrometry, to prevent sample interactions prior to analysis.

Polypropylene vials

Polypropylene vials are an excellent choice for biological applications, and for applications involving samples with high metal content—such as ion chromatography, AA, or ICP-MS.

Agilent thoroughly tested and evaluated a variety of polypropylene materials prior to selecting the grade used in our polypropylene vials. So you can rest assured that our vials have the lowest levels of extractables to ensure sample integrity.



Hundreds of choices... one easy guide

Use our online selection tool to quickly find the right products for complete confidence in your sample containment.

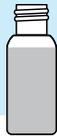
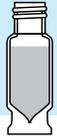
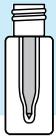
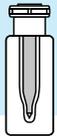
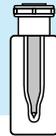
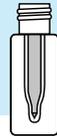
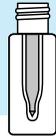
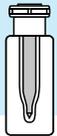
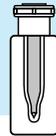
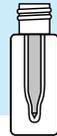
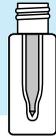
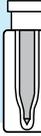
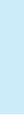
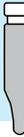
- Answer a few simple questions to identify your best options
- Search by technique, product number, or vial type
- Make a perfect pick from more than 600 vials, caps, and septa

Go to www.agilent.com/chem/selectvials

ORDERING INFORMATION

FIND THE RIGHT PRODUCTS FOR COMPLETE CONFIDENCE IN YOUR SAMPLE CONTAINMENT

Agilent vials, caps, and septa have been engineered and designed with the same superior quality we build into Agilent instruments. When you put our 40 years of innovation and excellence into your vials and caps, you can have complete confidence in your results.

	Wide Opening Screw Top Vials (9 mm)					Narrow Opening Screw Top Vials (8 mm)					Crimp/Snap Top		Polypropylene Vials		Screw Top	
																
Dimensions:	32 mm x 12 mm	32 mm x 12 mm	32 mm x 12 mm	32 mm x 12 mm	32 mm x 12 mm	32 mm x 12 mm	32 mm x 12 mm	32 mm x 12 mm	32 mm x 12 mm	32 mm x 12 mm	32 mm x 12 mm	32 mm x 12 mm				
Recommended Fill:	1.5 mL	1.2 mL	250 µL	1.3 mL	1.5 mL	250 µL	250 µL	0.7 mL	250 µL	250 µL	250 µL	250 µL	0.7 mL	250 µL	250 µL	250 µL
Part Number:	5182-0714	5183-2030	5188-6591	5184-3550	5183-4428	5188-2788	9301-0977 Glass Insert	5182-0567	5190-2242	5188-5390 Glass Insert						
	Wide Opening Crimp Top Vials (11 mm)				Wide Opening Snap Top Vials											
																
Dimensions:	32 mm x 12 mm	32 mm x 12 mm	32 mm x 12 mm	32 mm x 12 mm												
Recommended Fill:	1.5 mL	1.2 mL	250 µL	1.3 mL	1.7 mL	1.4 mL	0.7 mL	0.3 mL								
Part Number:	5181-3375	5182-3454	9301-1388	5184-3551	5182-0544	5183-4510	5184-3552	5188-6593								
	Inserts for Wide Opening Vials (11 mm & 9 mm)			Inserts for Narrow Opening Vials (8 mm)												
																
Dimensions:	30 mm x 5.6 mm	31 mm x 5.6 mm	31 mm x 5.6 mm	28 mm x 4.8 mm	31 mm x 4.8 mm	31 mm x 4.8 mm										
Recommended Fill:	250 µL	250 µL	400 µL	150 µL	150 µL	200 µL										
Part Number:	5181-1270	5183-2085	5181-3377	5183-2088	5183-2089	5183-2090										
	Headspace Vials				Mini Vials		Specialty Vials		Large Volume Vials							
																
Dimensions:	75 mm x 22 mm	45 mm x 22 mm	75 mm x 22 mm	45 mm x 22 mm	—	—	37 mm x 22 mm	45 mm x 15 mm	37 mm x 22 mm							
Recommended Fill:	20 mL	10 mL	20 mL	10 mL	500 µL	700 µL	6 mL	4 mL	6 mL							
Part Number:	5182-0837	5182-0838	5183-4474	5183-4475	5180-0806	5180-0805	9301-1419	5183-4448	9301-1377							

This is a selection of vials, not the entire portfolio.

The tables that follow are conveniently arranged by vial size for easy selection.
 You can also use our online selection tool at www.agilent.com/chem/selectvials

Containment Solutions for Sample Volumes <2 mL

Vials

Description	Sample volume	Material	Certified	Unit	Part No.
Microvials					
WineGlass shape, 12 x 32 screw top	15 µL	Glass, clear		100/pk	5184-3550
	15 µL	Glass, amber		100/pk	5184-3554
WineGlass shape, 12 x 32 crimp top	15 µL	Glass, clear		100/pk	5184-3551
	15 µL	Glass, amber		100/pk	5184-3555
Crimp top, tapered, 6 mm	100 µL	Glass, clear		500/pk	5180-0844
Crimp top, round bottom, 6 mm, for HTS and HTC PAL liquid injection	300 µL	Glass, clear		500/pk	5180-0841
Crimp/snap top	700 µL	Polypropylene		100/pk	5182-0567
Crimp top, flat bottom	800 µL	Glass, amber		1,000/pk	5183-4487
High recovery vials					
Crimp top	1.5 mL with 30 µL reservoir	Glass, clear		100/pk	5182-3454
	1.5 mL with 30 µL reservoir	Glass, clear (silanized)		100/pk	5183-4497
Screw top	1.5 mL with 30 µL reservoir	Glass, clear		100/pk	5183-2030
	1.5 mL with 30 µL reservoir	Glass, amber		100/pk	5183-2073
Microcentrifuge					
Microcentrifuge tubes	500 µL			100/pk	9301-6384
Polypropylene Vials					
Crimp/snap top	250 µL	Polypropylene	Y	100/pk	5188-2788
	250 µL	Polypropylene		1,000/pk	5190-3155
Screw top	250 µL	Polypropylene	Y	100/pk	5190-2242
	250 µL	Polypropylene	Y	1,000/pk	5190-2243
Vials with Integrated Inserts					
Screw top, with glass insert	250 µL	Polypropylene		100/pk	5188-5390
Crimp/snap top, with glass insert	250 µL	Polypropylene		100/pk	9301-0977
	250 µL	Polypropylene	Y	100/pk	9301-0978
Screw top, with fixed insert	300 µL	Glass, clear		100/pk	5188-6591
Crimp top, with fixed insert	300 µL	Glass, clear		100/pk	9301-1388
Screw top, with fixed insert	300 µL	Glass, amber		100/pk	5188-6592
Crimp top, with fixed insert	300 µL	Glass, amber		100/pk	5188-6572



5182-0567



5182-3454

Inserts

Description	Sample volume	Material	Certified	Unit	Part No.
Vial insert	100 µL		Y	500/pk	9301-1387
Vial insert, for 2 mL standard opening (8 mm) screw top vials	150 µL	Glass with polymer feet		100/pk	5183-2088
Vial insert, 200 µL measured fill (150 µL recommended), for 2 mL standard opening (8 mm) screw top vials	150 µL	Pulled point glass		100/pk	5183-2089
Vial insert, flat bottom, for 2 mL standard opening (8 mm) screw top vials	200 µL	Glass		100/pk	5183-2090
Vial insert, with graduations	250 µL	Polypropylene		100/pk	5190-4073
Vial insert	250 µL	Glass with polymer feet	Y	100/pk	5181-1270
Vial insert	250 µL	Deactivated glass with polymer feet	Y	100/pk	5181-8872
Vial insert, graduated to 300 µL in increments of 100 µL. Do not fill to more than 250 µL	250 µL	Polypropylene with polymer feet	Y	100/pk	5182-0549
Vial insert	250 µL	Pulled point glass	Y	100/pk	5183-2085
Vial insert, conical	250 µL	Polymer feet	Y	25,000/pk	5185-5958
Vial insert, flat bottom	250 µL	Glass	Y	50,000/pk	5067-0212
Vial insert	350 µL	Glass		1,000/pk	5188-5321
Vial insert, flat bottom	400 µL	Glass	Y	500/pk	5181-3377
Vial insert, flat bottom	400 µL	Deactivated glass	Y	500/pk	5183-2086
Vial insert, flat bottom	400 µL	Polypropylene	Y	500/pk	5183-2087
Cap for 350 µL glass insert				1,000/pk	5188-5322



5181-8872



5183-2085



5181-3377

Well Plates and Closing Mats

Description	Sample volume	Material	Certified	Unit	Part No.
384-well plate	90 µL	Polypropylene		30/pk	5042-1388
96-well plate, skirted	150 µL			25/pk	5042-8502
96-well plate with glass inserts, caps, septa preassembled	350 µL			1/pk	5065-4402
96-well plate	500 µL	Polypropylene		120/pk	5042-1385
96-well plate	500 µL	Polypropylene		10/pk	5042-1386
96 deep-well plate	1 mL	Polypropylene		50/pk	5042-6454
96 deep-well plate and microplate, round well, 1.0 mL working volume	1.2 mL			10/pk	SN400042
Insert and cap/septa kit for deep-well collection plates. Includes 350 µL inserts and caps/septa. Ideal for refilling kit 5065-4402.			Y	1,000/pk	5190-2237
Closing mat, Micro Mat, square, for 96-well plate				10/pk	SN800220
Closing mat for 96-well plate		Silicone		50/pk	5042-1389



Tips & Tools:

You can also use our Vial Selection Tool to search by instrument manufacturer.

Visit www.agilent.com/chem/selectvials

Containment Solutions for Sample Volumes of 2 mL

Vials

Description	Certified	100/pk	1,000/pk	10,000/pk	50,000/pk	100,000/pk
Crimp Top						
Clear	Y	5181-3375	5183-4491			5185-5852
Clear with write-on spot	Y	5182-0543	5183-4492			
Clear, wide	Y			5190-6116	5190-6123	
Clear, wide, with write-on spot	Y			5190-6117	5190-6124	
Amber with write-on spot	Y	5181-3376	5183-4493	5190-6113		
Crimp/Snap Top Polypropylene for CE						
Clear		5182-9697				
Amber with write-on spot		5183-4619				
Screw Top						
Clear, 8-425		5183-4428				
Clear	Y	5182-0714	5183-2067			5185-5918
Clear with write-on spot	Y	5182-0715	5183-2068		5190-6126	
Clear with write-on spot, 8 mm		8010-0010				
Amber, 8-425		5183-4429				
Amber	Y	5188-6535	5188-6536	5190-6114	5190-6121	
Amber with write-on spot	Y	5182-0716	5183-2069	5190-6115	5190-6122	
Amber with write-on spot, 8 mm		8010-0012				
Deactivated (Silanized)						
Crimp Top						
Clear	Y	5183-4494				
Clear with write-on spot	Y	5183-4495				
Amber with write-on spot	Y	5183-4496				
Screw Top						
Clear	Y	5183-2070				
Clear, 8-425		5183-4432				
Clear with write-on spot	Y	5183-2071				
Amber, 8-425		5183-4433				
Amber with write-on spot	Y	5183-2072				



5181-3375



5183-2067



5182-0716

Caps and Septa for <2 mL and 2 mL Vials

Septa

Description	Certified	100/pk	500/pk
PTFE/white silicone, pre-slit	Y	5183-2074	
PTFE/red silicone, for screw top caps	Y	5182-0731	
PTFE/white silicone, for screw top caps	Y	5182-0730	
PTFE/white silicone/red PTFE, for screw top caps	Y	5182-0729	
Red PTFE/white silicone/red PTFE, for 8-425 vials		5183-4436	
Red PTFE/white silicone, for 8-425 vials		5183-4437	
PTFE-coated butyl rubber, for 8-425 vials			9301-1130

Crimp Caps

Cap Color	Septa Type	Certified	25/pk	100/pk	500/pk	1,000/pk	5,000/pk	10,000/pk	100,000/pk
11 mm Crimp Caps									
Blue aluminum	Red PTFE/rubber			5181-1215					
Blue aluminum	Clear/red PTFE/silicone			5190-9045					
Blue aluminum	PTFE/silicone/PTFE	Y				5190-4074			
Gold aluminum	Clear/red PTFE/silicone			5190-9052					
Gold steel, magnetic	White silicone/PTFE			5188-5386					
Green aluminum	Red PTFE/rubber			5181-1216					
Green aluminum	Clear/red silicone/PTFE			5190-9046					
Green aluminum	PTFE/silicone/PTFE	Y				5190-6096			
Red aluminum	Red PTFE/rubber			5181-1217					
Red aluminum	Clear/red silicone/PTFE			5190-9047					
Red aluminum	PTFE/silicone/PTFE	Y				5190-4075			
Silver aluminum	Black fluorocarbon	Y		5181-1212					
Silver aluminum	PTFE/ butyl			8010-0051					
Silver aluminum	Red PTFE/rubber			5181-1210	5061-3370	5183-4498	5190-4053		5185-5851
Silver aluminum	Red PTFE/silicone			5190-9044					
Silver aluminum	PTFE/silicone	Y		5182-0552		5183-4500			
Silver aluminum	PTFE/silicone						5190-4052	5190-3186	
Silver aluminum	PTFE/silicone/PTFE	Y		5181-1211		5183-4499			
Silver aluminum	PTFE/silicone/PTFE						5190-4051		
Silver aluminum	Thin membrane	Y	5190-6169	5182-0871					
8 mm Crimp Caps									
Silver aluminum	PTFE/silicone/PTFE				5180-0842				



5188-5386



5181-1212

Screw Caps

Cap Description	Septa Type	Certified	100/pk	250/pk	500/pk	1,000/pk	5,000/pk	50,000/pk
Black, 11 mm, 8-425	Red PTFE/white silicone		5183-4442					
Black, 11 mm, 8-425	No septa		5183-4438					
Black, 11 mm	PTFE/red silicone	Y	5185-5838					
Blue, 11 mm, bonded	Pre-slit PTFE/silicone		5185-5824		5040-4649			
Blue, 11 mm, bonded	PTFE/silicone		5185-5823					
Blue, 11 mm, bonded	Pre-slit PTFE/white silicone	Y	5190-7023					
Blue, 11 mm, bonded	PTFE/red silicone	Y	5190-7024					
Blue, 11 mm	Pre-slit PTFE/silicone	Y	5183-2076		5185-5865			
Blue, 11 mm	PTFE-lined solid top	Y	5183-2075					
Blue, 11 mm	PTFE/red rubber	Y						5185-5917
Blue, 11 mm	PTFE/red silicone	Y	5182-0717		5185-5820	5190-1599		
Blue, 11 mm	PTFE/red silicone						5190-4049	
Blue, 11 mm	PTFE/white silicone	Y	5182-0720					
Blue, 11 mm	PTFE/white silicone						5190-4050	
Blue, 11 mm	PTFE/silicone		5190-3156					
Blue, 11 mm	PTFE/silicone/PTFE	Y	5182-0723		5185-5862			
Blue, 8 mm	PTFE/silicone/PTFE		8010-0063					
Blue	PTFE/white silicone	Y			5185-5863			
Blue, open top	No septa	Y	5182-0728					
Green, bonded	PTFE/red silicone	Y	5190-7025					
Green, bonded	PTFE/white silicone	Y	5190-7026					
Green, bonded	Pre-slit PTFE/red silicone	Y	5190-7028					
Green	Pre-slit PTFE/silicone	Y	5183-2077					
Green	PTFE/red silicone	Y	5182-0718		5185-5829			
Green	PTFE/white silicone	Y	5182-0721	5040-4682	5185-5864			
Green	PTFE/silicone/PTFE	Y	5182-0724		5185-5861			
Green, open top	No septa	Y	5182-0727					
Purple	PTFE/silicone	Y	5040-4681					
Red, bonded	PTFE/red silicone	Y	5190-7029					
Red, bonded	PTFE/white silicone	Y	5190-7030					
Red, bonded	Pre-slit PTFE/red silicone	Y	5190-7032					
Red, 9 mm	PTFE/white silicone/PTFE					8010-0188		
Red, 8 mm	PTFE/silicone/PTFE		8010-0068					
Red, 8 mm	Pre-slit PTFE/silicone		8010-0142					
Red	Pre-slit PTFE/silicone	Y	5183-2078					
Red	PTFE/red silicone	Y	5182-0719					
Red	PTFE/white silicone	Y	5182-0722					
Red	PTFE/silicone/PTFE	Y	5182-0725					
Red, open top	No septa	Y	5182-0726					
Orange, 9 mm	PTFE/silicone					8010-0186		
Orange, 9 mm	PTFE/silicone/PTFE					8010-0187		
Silver aluminum, 11 mm	Pre-slit PTFE/silicone		8010-0582					
Turquoise	PTFE/silicone		5040-4683					



5185-5823



5183-2075

2 mL Autosampler Vial Convenience Packs

Convenience packs are an easy way to get 500 of each component using one part number. Packed in our six-drawer, reusable blue plastic cabinet, 500 vials and caps with septa installed are kept handy and dust-free.

Description	Septa Type	Cap Color	Certified	500/pk
Crimp Top				
Clear	PTFE/red rubber	Silver		5181-3400
Clear with write-on spot	PTFE/red rubber	Silver	Y	5190-2241
Amber	PTFE/red rubber	Silver		5181-8801
Screw Top				
Clear, bonded	Pre-slit PTFE/silicone	Blue	Y	5067-0205
Clear	Pre-slit PTFE/silicone	Blue	Y	5183-2079
Clear	PTFE/red rubber	Blue	Y	5182-0732
Clear	PTFE/silicone	Blue	Y	5182-0734
Clear	PTFE/silicone/PTFE	Blue	Y	5182-0736
Clear with write-on spot	Pre-slit PTFE/silicone	Blue	Y	5183-2080
Clear with write-on spot	PTFE/red rubber	Blue	Y	5182-0867
Clear with write-on spot	PTFE/silicone	Blue	Y	5182-0868
Clear with write-on spot	PTFE/silicone/PTFE	Blue	Y	5182-0869
Amber with write-on spot	Pre-slit PTFE/silicone	Green	Y	5183-2081
Amber with write-on spot	PTFE/red rubber	Green	Y	5182-0733
Amber with write-on spot	PTFE/silicone	Green	Y	5182-0735
Amber with write-on spot	PTFE/silicone/PTFE	Green	Y	5182-0737

Pre-assembled Screw Top 2 mL Vial Packs

Pre-assembled packs come ready-to-use with the cap and septum of your choice attached to the vial. A time- and labor-saving product for use with your Agilent autosampler or any rotating tray automatic sampler.

Description	Septa Type	Cap Color	Certified	100/pk
Clear	Pre-slit PTFE/silicone	Blue	Y	5183-2082
Clear	PTFE/red silicone	Blue	Y	5182-0553
Clear	PTFE/silicone/PTFE	Blue	Y	5182-0555
Clear	PTFE/silicone	Blue	Y	5182-0557
Clear with write-on spot	Pre-slit PTFE/silicone	Blue	Y	5183-2083
Clear with write-on spot	PTFE/red rubber	Blue	Y	5182-0864
Clear with write-on spot	PTFE/silicone	Blue	Y	5182-0865
Clear with write-on spot	PTFE/silicone/PTFE	Blue	Y	5182-0866
Amber	PTFE/silicone	Green	Y	5182-0558
Amber	PTFE/silicone/PTFE	Green	Y	5182-0556
Amber with write-on spot	PTFE/red rubber	Green	Y	5182-0554



Autosampler vial convenience pack



Pre-assembled screw top vial pack

2 mL Vial Kits

2 mL Vial kits are packs of vials with caps. These kits are not pre-assembled and do not come in storage drawers like the convenience pack.

Vial Description	Septa Type	Cap Color	Certified	100/pk	10,000/pk	50,000/pk	100,000/pk
Crimp Top							
Clear	PTFE/silicone	Silver		8010-0195			
Clear glass vial bundle	PTFE/red rubber	Silver	Y			5185-5946	
Amber	PTFE/silicone	Silver		8010-0196			
Amber	PTFE/red rubber	Silver	Y			5067-0214	
Screw Top							
Clear	PTFE/red silicone	Blue	Y				5067-0237
Clear glass vial bundle	PTFE/silicone	Blue	Y			5185-5950	
Clear			Y		5190-6118	5190-6125	
Clear with write-on spot			Y		5190-6119		
Clear	PTFE/silicone septa	Orange		8010-0198			
Clear glass vial and cap pack	Pre-slit PTFE/silicone	Red		8010-0425			
Clear glass vial and cap pack	PTFE/butyl	Black		8010-0426			
Clear glass vial and cap pack, standard opening (8 mm)	PTFE/silicone	Black		8010-0414			
Clear glass with write-on spot, (9 mm). Similar to Waters 186000307C, National Scientific C4000-95W, Chromacol MEL, and La-Pha-Pack 11 23 1051	Pre-slit PTFE/silicone	Orange		8010-0542			
Clear glass 8-425	PTFE-lined solid storage			5183-4518			
Amber	PTFE/silicone septa	Orange		8010-0199			
Amber with write-on spot, 9 mm	Pre-slit PTFE/silicone	Orange		8010-0543			
Amber glass vial and cap pack, standard opening (8 mm)	PTFE/silicone	Black		8010-0415			

2 mL MS Analyzed Vial Kits

Agilent MS Analyzed Vial Kits end the need to pre-test or to re-run samples due to unexpected peaks. All MS Analyzed Vial Kits include a Certificate of Analysis that contains accurate, lot-specific, and fully traceable LC/MS and GC/MS signal traces, as well as critical physical dimensions. Agilent's new MS Analyzed Vial Kits provide lot-specific test results for greater confidence in your results.

Description	Septa Type	Cap Color	Certified	100/pk	1,000/pk
Crimp Top					
Clear with write-on spot	PTFE/silicone	Silver	Y		5190-6181
Amber with write-on spot	PTFE/silicone	Silver	Y		5190-6182
Screw Top					
Clear with write-on spot	PTFE/silicone	Silver	Y	5190-2282	5190-6184
Clear with write-on spot	PTFE/silicone	Blue	Y	5190-2278	
Amber with write-on spot	PTFE/silicone	Blue	Y	5190-2280	5190-6186



8010-0425



5190-2282



5190-2280

Containment Solutions for Sample Volumes >2 mL

4 mL Screw Top Vials

Description	Size	Unit	Part No.
Clear	15 x 45 mm	100/pk	5183-4448
Clear with write-on spot	15 x 45 mm	100/pk	5067-0246
Amber	15 x 45 mm	100/pk	5183-4450
Amber with write-on spot	15 x 45 mm	100/pk	5067-0247

Screw Caps for 4 mL Vials

Description	Material	Unit	Part No.
Black	PTFE/silicone septa	100/pk	5183-4464
Black	No septa	100/pk	5183-4461

4 mL Vial Kits

Vial Type	Septa Type	Cap Size/Color	Unit	Part No.
Clear glass Similar to Waters 186000838C, Dionex/Thermo 03-375-3G, National Scientific C4015-1	PTFE/silicone	13 mm, black	100/pk	8010-0553
Clear glass vials	No septa		144/pk	9301-0723
Amber glass vials Similar to Waters 186001133C, Dionex/Thermo 03-375-3P, National Scientific C4015-2	PTFE/silicone	13 mm, black	100/pk	8010-0554
Wash vials with fill markings	No septa		25/pk	5182-0551

Septa

Description	Unit	Part No.
Red PTFE/white silicone	100/pk	5183-4460
PTFE/natural rubber	144/pk	9301-1031
White virgin PTFE	1,000/pk	5183-4459

LC Vials, Caps and Septa

Description	Certified	100/pk
Vial, screw top, clear glass, flat bottom, 6 mL	Y	9301-1377
Vial, crimp top, clear glass, flat bottom, 6 mL		9301-1419
Cap, screw, with pre-slit PTFE/silicone septa, 16 mm		8010-0102
Cap, screw, PTFE/silicone septa, 16 mm		8010-0101
Septa, pre-slit PTFE/silicone, 16 mm	Y	5188-2758
Septa for 6 mL vials	Y	9301-1378



9301-1377

>4-10 mL Caps and Septa

Description	Material	Unit	Part No.
Screw cap for 6 mL vials		100/pk	9301-1379
Screw cap, 22 mm, black	No septa	100/pk	8010-0565
Snap caps and seals for 10 mL wash vials		10/pk	G6500-88027
Septa, 22 mm	PTFE/silicone	100/pk	8010-0564

Seals

Description	Unit	Part No.
Seals for wash and waste vials, 10/20/100 mL	20/pk	MLAL1000023

Headspace Vials

Description	Size	Certified	Unit	Flat Bottom	Round Bottom
Crimp Top, Glass					
Clear	10 mL, 23 x 46 mm	Y	100/pk	5182-0838	5183-4475
					5190-6147
		Y	1,000/pk	8010-0179	
Clear with graduation marks and write-on spot	10 mL, 23 x 46 mm		100/pk	5190-2285	
Clear	20 mL, 23 x 75 mm	Y	100/pk	5182-0837	5183-4474
	20 mL, 23 x 75 mm	Y	10,000/pk	5185-5957	5067-0235
Clear with graduation marks and write-on spot	20 mL, 23 x 75 mm		100/pk	5190-2288	
Clear	22 mL		100/pk		8010-0152
Amber	10 mL, 23 x 46 mm	Y	100/pk	5067-0227	5190-2238
Amber with graduation marks and write-on spot	10 mL, 23 x 46 mm		100/pk	5190-2287	
Amber	20 mL, 23 x 75 mm	Y	100/pk	5067-0226	5190-2239
Amber with graduation marks and write-on spot	20 mL, 23 x 75 mm		100/pk	5190-2286	
Screw Top, Glass					
Clear	10 mL, 23 x 46 mm		100/pk		5188-5392
Clear	20 mL, 23 x 75 mm		100/pk		5188-2753
	20 mL, 23 x 75 mm		1,000/pk	8010-0180	
Amber	10 mL, 23 x 46 mm		100/pk		5188-6538
Amber	20 mL, 23 x 75 mm		100/pk		5188-6537



Agilent 7697A Headspace Sampler

Ensure an inert sample pathway for superior GC performance without analyte degradation or loss.

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Headspace Caps

Description	Size	Septa Type	Certified	100/pk	1,000/pk	10,000/pk
Crimp Caps						
Silver aluminum	20 mm	Molded PTFE/butyl	Y			5190-2258
	20 mm	PTFE/silicone	Y	5183-4477		5190-2257
	20 mm	PTFE/silicone		9301-1425		
	20 mm	Tan PTFE/white silicone			8010-0191	
	20 mm	No septa		9301-0721		
Silver aluminum with safety feature	20 mm	Molded PTFE/butyl	Y	5183-4479		
	20 mm	Molded PTFE/butyl		5183-4480		
	20 mm	PTFE/silicone	Y	5183-4478		5067-0236
	20 mm	No septa		9301-0718		
Bimetal, magnetic	20 mm	PTFE/silicone		8010-0420		
Steel, magnetic	20 mm	Tan PTFE/silicone		8010-0165		
	20 mm	Silicone/PTFE		8010-0424		
	20 mm	High temperature septa	Y	5190-3987		
	18 mm	PTFE/butyl septa		8010-0140		
Screw Caps						
Steel, magnetic	18 mm	PTFE/silicone (white top, blue bottom)		5188-2759		
	18 mm	High temperature septa		5190-3986		

Headspace Septa and Stoppers

Description	Septa Type	Certified	100/pk	1,000/pk	10,000/pk
Septa					
18 mm	Blue PTFE/silicone			8010-0418	
20 mm	Tan PTFE/white silicone		9301-0719	8010-0192	
20 mm	Tan PTFE/white silicone	Y			5067-0234
20 mm	Red molded silicone/white PTFE		250-030-DAN		
20 mm	Gray molded PTFE/black butyl		9301-0976		
Stoppers					
Gray butyl stopper, 20mm, -40/120 °C		Y	5183-4476		

Headspace Kits

Description	Septa Type	Cap Color/Type	Certified	100/pk
Crimp Top				
10 mL clear, flat bottom glass vials	PTFE/silicone	Silver		8010-0412
20 mL clear, flat bottom glass vials	PTFE/silicone	Silver		8010-0413
20 mL clear, flat bottom glass vials	PTFE/black butyl	Silver with safety feature	Y	5182-0839
20 mL clear, flat bottom glass vials	Molded PTFE/silicone	Silver with safety feature	Y	5182-0840
Screw Top				
20 mL clear, round bottom glass vials	PTFE/silicone	Silver magnetic		8010-0417

LC High Recovery Vials

Description	Size	Certified	30/pk
Screw top, clear glass	15 mL	Y	5188-5369

Vials, Caps, and Septa for Archon purge and trap

Description	Size	Certified	24/pk	60/pk	72/pk	100/pk
Vial Kits						
Clear, precleaned vials, caps, and septa	40 mL				5183-4741	
Amber, precleaned vials, caps, and septa	40 mL				5183-4742	
Screw Caps						
Cap, screw	40 mL		5183-4744			
Cap, screw, red	40 mL	Y				5190-6172
Septa						
Precleaned for 40 mL vials					5183-4743	
EPA low-bleed	22 mm			5190-3976		
PTFE/silicone	22 mm				5190-3978	

Storage Vials

Vial Size	Unit	Cap Size	Vial Type	Septa Type	Closed Top	Open Top
4 mL, 15 x 45	100/pk	13-425	Clear	PTFE/silicone	5183-4311	5183-4331
	100/pk	13-425	Amber	PTFE/silicone	5183-4321	
12 mL, 19 x 65	100/pk	15-425	Clear	PTFE/silicone	5183-4312	5183-4332
	100/pk	15-425	Amber	PTFE/silicone	5183-4322	
22 mL, 23 x 85	100/pk	20-400	Clear	PTFE/silicone	5183-4313	5183-4333
	100/pk	20-400	Amber	PTFE/silicone	5183-4323	
40 mL, 28 x 95	100/pk	24-414	Clear	PTFE/silicone	5183-4314	5183-4334
	100/pk	24-414	Amber	PTFE/silicone	5183-4324	
	100/pk	24-414	Amber			5190-4000



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Bonded Caps

Cap Size	Unit	Cap Color	Cap Type	Septa Type	Closed Top	Open Top
13-425	100/pk	White	Polypropylene	PTFE/silicone	5183-4301	5183-4305
15-425	100/pk	White	Polypropylene	PTFE/silicone	5183-4302	5183-4306
20-400	100/pk	White	Polypropylene	PTFE/silicone	5183-4303	5183-4307
24-414	100/pk	White	Polypropylene	PTFE/silicone	5183-4304	5183-4308

Test Tubes

Description	Size	Certified	100 /pk	250 /pk
12 x 48 mm	3.5 mL		5022-6534	
16 x 48 mm	7 mL		5022-6533	
12 x 100 mm	8.5 mL			5022-6531
16 x 100 mm	20 mL			5022-6532
30 x 48 mm round bottom glass	20 mL	Y	5042-6470	
25 x 100 mm round bottom glass	40 mL		5042-6459	
30 x 100 mm round bottom glass	60 mL		5042-6458	

Agilent 90-day warranty and money-back guarantee

All Agilent vials are designed and manufactured to stringent standards under the Agilent quality system registered to ISO 9001. If Agilent receives notice of defects during the warranty period, Agilent shall, at its option, either repair or replace products which prove to be defective. If Agilent is unable, within a reasonable time, to repair or replace any product to a condition as warranted, the buyer shall be entitled to a refund of the purchase price upon return of the product to Agilent. The warranty period for each product begins on the day of shipment.

This warranty shall not apply to any defect, failure, or damage caused by improper use or improper or inadequate maintenance or care. This warranty is exclusive and no other warranty, whether written or oral, is expressed or implied. Agilent specifically disclaims the implied warranties of merchantability and fitness for particular purposes. The remedies provided herein are the buyer's sole and exclusive remedies. In no event shall Agilent be liable for direct, indirect, special, incidental, or consequential damages (including loss of profits) whether based on contract, tort, or any other legal theory.



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Description	Part No.
Crimper	
 11 mm electronic crimper with lithium battery	5190-3188
 20 mm electronic crimper with lithium battery	5190-3189
Decapper	
 11 mm electronic decapper with lithium battery	5190-3190
 20 mm electronic decapper with lithium battery	5190-3191
Replacement lithium battery for crimper and decapper	5190-3192

Cut your crimping time in half with Agilent high-power electronic crimpers

Electronic crimpers give you the power to crimp vials 50% faster than using a manual crimper. We recommend the high-power crimper if you are using steel caps.

Description	Cap size	Part No.
High-power electronic crimping tool with power supply		5190-4061
Base for electronic crimping tool		5190-4066
Crimper jaw set for high-power electric crimper	11 mm	5190-4062
Decapper jaw set for high-power electric crimp tool	11 mm	5190-4063
Crimper jaw set for high-power electric crimper	20 mm	5190-4064
Decapper jaw set for high-power electric crimper	20 mm	5190-4065
High-power crimping tool and jaw sets bundle	20 mm	5190-4067

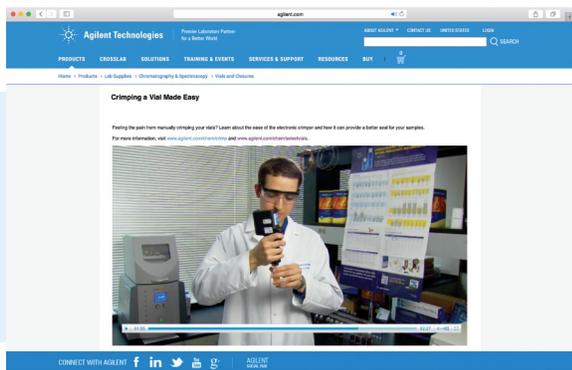


Stop wrist strain with ergonomic Agilent manual crimpers, for performance on a limited budget

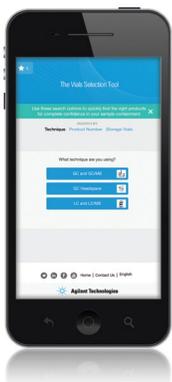
With their lightweight, tailored design, Agilent manual crimpers and decappers help eliminate the problem of sore, pinched hands. Plus, they're built to last: the 11 mm crimper will complete at least 100,000 cappings, and the 20 mm crimper will complete at least 60,000 cappings.



	Description	Cap size	Part No.
	Crimper		
	Ergonomic manual crimper	11 mm	5040-4667
	Ergonomic manual crimper	20 mm	5040-4669
	Decapper		
	Ergonomic manual decapper	11 mm	5040-4668
	Ergonomic manual decapper	20 mm	5040-4671



Watch our
"Crimping a Vial Made Easy" video at
www.agilent.com/chem/crimpingvideo



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Printed in the USA May 16, 2016
5990-9022EN