

# Agilent CrossLab



## Supplies Selection Guide for Non-Agilent GC Systems

2011-2012 EDITION

Put Agilent quality supplies  
to work across your lab

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Agilent Technologies

# CrossLab Supplies Selection Guide for Non-Agilent GC Systems

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\*Formerly Varian GC systems, now Bruker products

# Agilent CrossLab

Agilent CrossLab is a growing portfolio of supplies critical to instrument performance and productivity, manufactured to perform seamlessly with a variety of analytical instruments in your lab, regardless of make or model. Look inside this selection guide to find a comprehensive range of products to use across your lab.

**We currently support:**

- Bruker, Varian\*
- CTC
- PerkinElmer
- Shimadzu
- Thermo Scientific
- And more coming soon

**Our growing portfolio includes the following products, featuring easy-to-use packaging for improved productivity:**

- Premium non-stick inlet septa
- Ultra Inert inlet liners
- Liner O-rings
- Column ferrules and nuts
- Autosampler syringes
- Vials and closures

\*Formerly Varian GC systems, now Bruker products



**Agilent CrossLab is more than supplies:**

- Over 40 years of chromatography expertise and ongoing innovation
- Optimal performance for both routine and challenging applications
- Dependable worldwide product availability and delivery
- Convenience of consolidated purchasing



## CrossLab Inlet Liners

Liners are the centerpiece of the inlet system where sample is vaporized and mixed with the carrier gas. CrossLab GC inlet liners have the perfect mix of liner configurations and chemistries to solve your application challenges.

Choose from split, splitless, PTV, and other inlet liner designs in either the new, innovative Ultra Inert deactivation or Agilent's popular proprietary deactivation, now referred to as Agilent Original deactivation. With part number and lot number silk screened on CrossLab liners, identification and re-ordering has never been easier.

## CrossLab Liners with Ultra Inert Deactivation

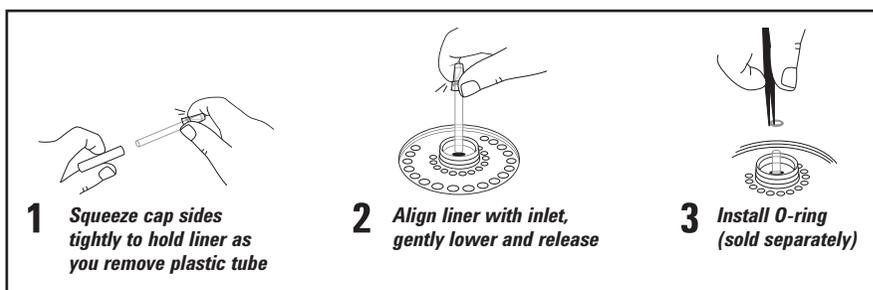
Developed for high sensitivity analysis, Agilent's Ultra Inert deactivation provides extreme surface inertness – even for liners containing glass wool. Ultra Inert chemistry was developed using a suite of tests specifically designed to stress then evaluate liner activity, resulting in liners featuring:

- **Reproducibility** – highest level and consistent inertness for active compounds such as acids and bases
- **Robustness** – tested with a sequence of 100 injections of Endrin/DDT with < 20% degradation, allowing use of glass wool even with highly active compounds at trace (0.5 ng on-column) levels
- **Reliability** – lot-tested for inertness to ensure consistent and efficient deactivation using both acidic and basic probes at trace level (2 ng) on-column, with low to no bleed or background contamination

Ultra Inert liners are delivered in Agilent's exclusive Touchless packaging. Touchless packaging aids in easy installation of the new, clean, preconditioned liner – without risk of contamination from touching.

### Consider the following to determine how often to change your liners:

- Previous use pattern
- Sample cleanliness
- Chromatographic abnormalities, such as
  - ✓ Peak shape changes
  - ✓ Peak discrimination
  - ✓ Poor reproducibility
  - ✓ Sample pyrolysis
  - ✓ Active analyte response loss or decomposition



CrossLab Ultra Inert Touchless liner packaging includes visual installation guide.

## Get a robust, reproducible, and reliable inert flow path with Agilent CrossLab Ultra Inert Inlet Liners – even when containing glass wool

### Forensic basic drugs test conditions

**Column: DB-5MS Ultra Inert  
122-5512UI  
15 m x 0.25 mm, 0.25 µm**

Sample: 5 ppm Checkout mixture for GC/MS forensic/toxicology analyzer (P/N 5190-0471)

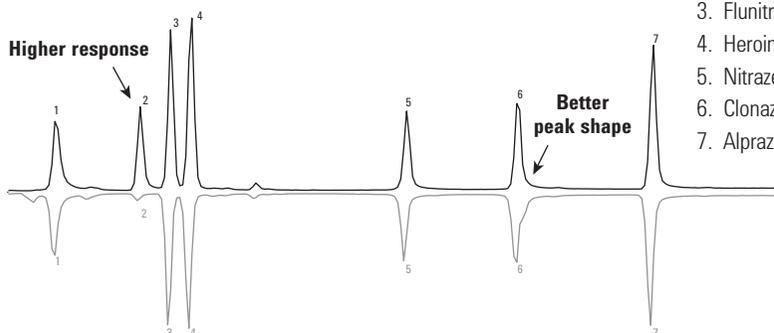
Injection: 1 µL splitless @ 280 °C (hold 0.75 min)

Oven: 100 °C (0.5 min) to 325 °C at 20 °C/min and hold 2.5 min

Carrier: He, 18.74 psi (adj to RT lock), constant pressure

Detector: MSD; Source temp @ 300 °C, Quad temp @ 150 °C, Transfer line @ 300 °C; Acquisition mode, SIM/scan

#### Agilent CrossLab Ultra Inert single taper liner with wool



1. Oxycodone
2. Temazepam
3. Flunitrazepam
4. Heroin
5. Nitrazepam
6. Clonazepam
7. Alprazolam

#### Restek Siltek deactivated gooseneck liner with deactivated wool (cat. no. 22406.213.5)

Agilent CrossLab Ultra Inert deactivated liners with wool contribute to higher response and better peak shape for very active forensic basic drug compounds than similar Restek Siltek liners.

## CrossLab Liners with Agilent Original Deactivation

Developed to complement fused silica capillary column technology, Agilent's proprietary deactivation, now referred to as Agilent Original deactivation, has been successfully used for years. Proven to deliver a long-lasting surface deactivation, this proprietary chemistry and manufacturing process was previously available for Agilent gas chromatographs only but is now available for other GC systems. Agilent Original deactivation is recommended for everyday analysis.

## CrossLab Liner O-rings

- Liners are sealed in the inlet with fluoroelastomer or graphite O-rings
- Graphite O-rings are used when inlet temperatures exceed 350 °C
- Fluoroelastomer O-rings are easier to replace than graphite O-rings, which deform and flake apart more easily

Ready for chromatographic use, CrossLab fluoroelastomer O-rings feature:

- Proprietary two-step cleaning and conditioning process eliminates out-gassing of contaminants, which is especially important for trace, ECD and MSD analyses
- Plasma-treatment for a non-stick, contaminant-free surface that won't stick to the inlet metal surface
- Novel translucent dial package that conveniently delivers one clean O-ring at a time and makes it easy to know when to reorder



## CrossLab Column Ferrules

A variety of column ferrules are available to meet your application requirements, including 100% Graphite, 100% Vespel and Vespel/Graphite ferrules.

Using the wrong ferrule or a worn-out ferrule to seal your column connection can result in inconsistent and unreliable chromatography. An improper ferrule can cause leaks, which allow air and other contaminants to enter the instrument through the column seal, causing major interference with column and detector performance.

The ideal ferrule provides a leak-free seal, accommodates various column outer diameters, seals with minimum torque, withstands temperature cycling, and does not stick to the column or fittings.

For optimum performance, ferrules should be replaced every time the column is replaced and when performing column maintenance.

To minimize problems, follow these general techniques for ferrule installation:

- Don't overtighten – finger tighten the column nut, then use wrench to tighten
- Maintain cleanliness
- Bake out ferrules prior to use (Vespel and Vespel/Graphite only)
- Avoid contamination, such as fingerprint oils
- Inspect used ferrules with magnifier for cracks, chips, or other damage before reusing them
- Change ferrules when new columns or injector/detector parts are installed



### Tips & Tools

Look for the following signals that indicate ferrule damage:

- Background noise from oxygen diffusing into the system
- Column bleed catalyzed by oxygen
- Sample degradation
- Sample loss
- Increase in detector signal/noise
- Poor retention time reproducibility



## Ferrule Selection Recommendations

Ferrule Type	Upper Temp. Limit	Usages	Advantages	Limitations
Graphite (100%)	450 °C	<ul style="list-style-type: none"> <li>• General purpose for capillary columns</li> <li>• Suitable for FID and NPD</li> <li>• Recommended for high temperature and cool on-column applications</li> </ul>	<ul style="list-style-type: none"> <li>• Easy-to-use stable seal</li> <li>• Higher temperature limit</li> <li>• Can be removed easily</li> </ul>	<ul style="list-style-type: none"> <li>• Not for MS or oxygen-sensitive detectors</li> <li>• Soft, easily deformed or destroyed</li> <li>• Possible system contamination</li> </ul>
Vespel/Graphite (85%/15% or 60%/40%)	350 °C	<ul style="list-style-type: none"> <li>• General purpose for capillary columns</li> <li>• Recommended for MS and oxygen-sensitive detectors</li> <li>• Most reliable leak-free connection</li> </ul>	<ul style="list-style-type: none"> <li>• Mechanically robust</li> <li>• Long lifetime</li> </ul>	<ul style="list-style-type: none"> <li>• Not reusable</li> <li>• Flows at elevated temperature</li> <li>• Must re-tighten frequently</li> </ul>
Vespel (100%)	280 °C	<ul style="list-style-type: none"> <li>• Isothermal operation</li> <li>• Can be reused or removed easily</li> <li>• Excellent sealing material when making metal or glass connections</li> </ul>	<ul style="list-style-type: none"> <li>• Mechanically robust</li> <li>• Long lifetime</li> <li>• Can be reused or removed easily</li> </ul>	<ul style="list-style-type: none"> <li>• Leaks after temperature cycle</li> <li>• Flows at elevated temperature</li> <li>• Must re-tighten frequently</li> </ul>



### Tips & Tools

100% Vespel ferrules should only be used for isothermal applications.



## CrossLab Autosampler Syringes

With a broad selection of syringes for auto injection, CrossLab autosampler syringes provide what you need for accurate and effective sampling. CrossLab syringes meet all fit, form, and function criteria for specific autosampler models. Agilent delivers more value in every autosampler syringe:

- Lot number printed directly on the barrel with a corresponding Certificate of Conformance
- Illuminating backing strip, for effortless viewing of the volume scale
- Environmentally friendly packaging and improved design that reduces waste
- Individually packaged for contaminant-free use right out of the box

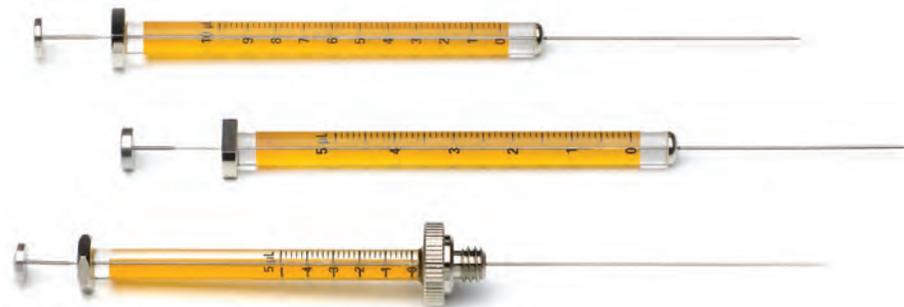


### Tips & Tools

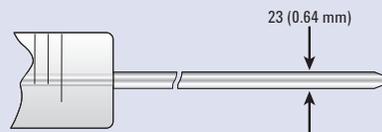
Replace syringe if dirt is noticeable, syringe cannot be cleaned or plunger doesn't slide easily. Replace needle if septa wear is abnormal or needle is clogged.

### Typical Needle Gauge Dimensions

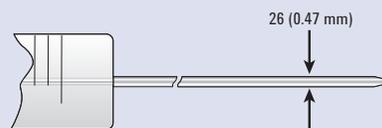
Gauge	OD		ID	
	mm	inches	mm	inches
23	0.64	0.0248	0.11	0.0043
25	0.50	0.0197	0.20	0.0079
26	0.47	0.0184	0.11	0.0043



## Needle Gauge



**Single Gauge 23 (0.64 mm)**  
Packed column injector ports  
Split/splitless injector ports



**Single Gauge 26 (0.47 mm)**  
Packed column injector ports  
Split/splitless injector ports

## Needle Termination

Needle terminations are available in fixed or removable, with various tip styles.



### Tips & Tools

Follow manufacturer's recommendation for syringe cleaning and regularly inspect syringe barrel for sample build-up and needle tip for wear.

### Fixed (cemented)

- Economical, reproducible injections for autosamplers
- Preferred for applications requiring trace level samples
- Recommended for use where probability of needle bending is minimal
- Can be heated up to 70 °C

### Removable needle

- Versatile option for injections
- Needle can be replaced if damaged or clogged
- Allows needle to be changed for different applications
- Can be heated up to 120 °C



## CrossLab Inlet Septa

Inlet septa are a key component of sample introduction. Septa maintain the leak-free seal and exclude air from the inlet. They come in many different sizes and are made from different types of materials specific to inlet type and analysis needs.

Septa are available for a variety of different applications and have different upper temperature limits. Lower temperature septa are usually softer, seal better, and can withstand more punctures (injections) than their high-temperature counterparts. If septa are used above their recommended temperatures, they can leak or decompose, causing sample loss, lower column flow, decreased column life and ghosting. To minimize problems:

- Use within the recommended temperature range
- Change regularly
- Use septum purge when available
- Use autoinjectors
- Regularly inspect needle tips for wear



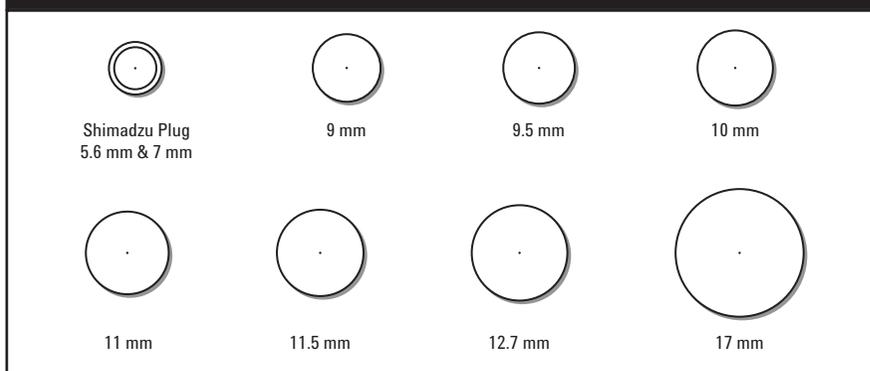


## CrossLab Inlet Septa Selection Guide

GC Manufacturer	Instrument Model	Diameter (mm)	Diameter (in.)
Bruker, Varian*	1177 Split/Splitless Injector	9	
	1078/1079 Programmable Temperature Vaporizing Injector	11.5	
	1093 Cold On-Column Injector	11	7/16
	1075/1077 Split/Splitless Injector	11	7/16
	1061 Packed/0.53 mm Capillary Column Flash Vaporization Injector	9.5	3/8
	1041 Packed/Wide Bore On-Column Injector	9.5	3/8
	PerkinElmer	Clarus System	11
AutoSystem		11	7/16
AutoSystem XL		11	7/16
8000 Series		11	7/16
Sigma Series		11	7/16
Thermo Scientific Trace GC Ultra and Focus GC	Split/Splitless Injector	17	
	Large Volume Splitless Injector	9	
	Programmable Temperature Vaporizing Injector	12.7	1/2
	Purged Packed Column Injector	11	
Thermo Scientific Finnigan	Trace 2000 Series	9.5	
	9001 GC	9.5	
Shimadzu	All Models	Shimadzu Plug	

\*Formerly Varian GC systems, now Bruker products

## Septa Diameters



## Premium Non-Stick Septa

CrossLab premium non-stick inlet septa are designed and manufactured to provide a reliable noncontaminating seal. Our tri-fold blister pack ensures that each septum remains clean and ready to use.

- Proprietary plasma treatment prevents sticking and unnecessary inlet cleaning
- Innovative blister packaging keeps each septum clean and ready for use
- Center point guides the needle for easy penetration, less coring and longer life
- Precision molding assures accurate fit in the inlet
- Each batch is tested for bleed
- Premium formulations selected for sealing and chromatographic cleanliness
- No need to bake septa before using

### Replace septa regularly to avoid:

- Leaks
- Decomposition
- Sample loss
- Reduced column or split vent flow
- Ghost peaks
- Column degradation

### Summary of Premium Inlet Septum Characteristics

Septum Type	Bleed	Lifetime	Temperature Limits
Non-Stick BTO (Bleed and Temperature Optimized)	◆◆◆	◆	to 400 °C injection port temp
Non-Stick Advanced Green	◆◆	◆◆	to 350 °C
Non-Stick Long-Life	◆	◆◆◆	to 350 °C

◆◆◆ = best   ◆◆ = very good   ◆ = good





BTO septa, 8010-0223, 8010-0224

## CrossLab Non-Stick Bleed Temperature Optimized (BTO) Inlet Septa

- Extended temperature range, lowest bleed
- Maximum injection port temperature 400 °C
- Plasma treatment eliminates sticking in the injection port
- Pre-conditioned; ready to use
- Blister packaging maintains cleanliness and convenience
- Ideal for use with low-bleed, "Mass Spec" capillary columns

### Non-Stick Bleed and Temperature Optimized (BTO) Septa

Description	50/pk	100/pk
9 mm, CenterGuide	8010-0217	8010-0218
9.5 mm	8010-0219	8010-0220
10 mm	8010-0221	8010-0222
11 mm, CenterGuide	8010-0223	8010-0224
11.5 mm, CenterGuide	8010-0225	8010-0226
Shimadzu plug	8010-0231	8010-0232
Description	24/pk	48/pk
12.7 mm, CenterGuide	8010-0227	8010-0228
17 mm, CenterGuide	8010-0229	8010-0230

### Comparison of Coring, With and Without CenterGuide (30x magnification)



#### High-Temperature Septa without CenterGuide

Major coring before 100 autoinjections



#### CrossLab BTO Septa with CenterGuide

Very little coring, even after 700 autoinjections

## CrossLab Non-Stick Advanced Green Inlet Septa

- True long-life, high temperature green septa
- More injections per septum
- Plasma treatment eliminates sticking in the injection port
- Maximum injection port temperature 350 °C
- High-performance alternative to competitors' "green" septa
- Blister packaging for cleanliness and convenience



Advanced green septa,  
8010-0207, 8010-0208

### Non-Stick Advanced Green Septa

Description	50/pk	100/pk
9 mm, CenterGuide	8010-0201	8010-0202
9.5 mm	8010-0203	8010-0204
10 mm	8010-0205	8010-0206
11 mm, CenterGuide	8010-0207	8010-0208
11.5 mm, CenterGuide	8010-0209	8010-0210
Shimadzu plug	8010-0215	8010-0216
Description	24/pk	48/pk
12.7 mm, CenterGuide	8010-0211	8010-0212
17 mm, CenterGuide	8010-0213	8010-0214

## CrossLab Non-Stick Long-Life Inlet Septa

- Preferred septa for autosamplers
- Pre-pierced for extended life and reduced coring
- Ideal for overnight runs
- Up to 400 injections per septum
- Plasma treatment eliminates sticking
- Maximum injection port temperature 350 °C
- Soft, 45 durometer, easy on autosampler needles
- Blister packaging for cleanliness and convenience



Long-life septa, 8010-0239, 8010-0240

### Non-Stick Long-Life Septa

Description	50/pk	100/pk
9 mm, CenterGuide	8010-0233	8010-0234
11 mm, CenterGuide	8010-0239	8010-0240
11.5 mm, CenterGuide	8010-0241	8010-0242
Description	24/pk	48/pk
12.7 mm, CenterGuide	8010-0243	8010-0244
17 mm, CenterGuide	8010-0245	8010-0246



CrossLab general purpose inlet septa, 8010-0257

## CrossLab Gray General Purpose Inlet Septa

Agilent CrossLab general purpose septa are made from an enhanced injection-molded silicone rubber and are good for routine use. The septa material, gray in color, is specified to withstand over 200 automatic injections at an injection port temperature of 350 °C.

### General Purpose Septa

Description	50/pk	100/pk
9 mm	8010-0249	8010-0250
9.5 mm	8010-0251	8010-0252
10 mm	8010-0253	8010-0254
11 mm	8010-0255	8010-0256
11.5 mm	8010-0257	8010-0258
12.7 mm	8010-0259	8010-0260
17 mm	8010-0261	8010-0262
Shimadzu plug	8010-0263	8010-0264

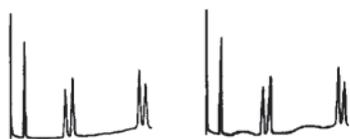
## Septa Troubleshooting

### Symptom

### Possible Causes

### Remedy

#### Extra Peaks/Humps



Septum bleed

Turn off injector heater. If extra peaks disappear, use septum specified for higher temperature or analyze at lower inlet temperature.

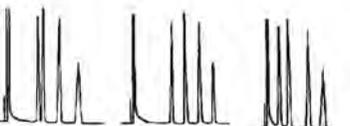
#### Baseline Change After Large Peak



Large leak at septum during injection and for a short time thereafter (common with large diameter needles)

Replace septum and use smaller diameter needles.

#### Retention Times Prolonged



Carrier gas leaks at septum or column connection

Check for leaks. Replace septum or tighten connections if necessary.

## CrossLab Vials and Closures

Agilent CrossLab vials and closures are thoroughly tested to ensure the highest level of quality. Additionally, CrossLab vials are:

- Manufactured in an ISO 9001 certified facility
- Made from First Hydrolytic Type 1 Class A or Class B borosilicate glass, which conforms to US FDA, USP, and EU Pharmacopeia standards
- Protected by proprietary packaging with a crush barrier to reduce vial breakage
- 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 specifications



**For a comprehensive vial compatibility chart, identification guide, septum recommendations, and ordering information, see the complete CrossLab Vials and Closures section, starting on page 42.**



# CrossLab Supplies for Bruker, Varian\* GC Systems

## Liners for 1177 Split/Splitless Injector Ports

Description	ID (mm)	OD (mm)	Length (mm)	Volume (µL)	Unit	Agilent Ultra Inert Deactivation	Similar to OEM Part No.	Agilent Original Deactivation	Similar to OEM Part No.
<b>Split/Splitless Liners</b>									
 Single taper	4.0	6.3	78.5	1000	5/pk	8004-0151	RT207992145 SG092017	8004-0101	SG092017
 Single taper, with wool	4.0	6.3	78.5	1000	5/pk	8004-0152	SG092019	8004-0102	SG092019
 Double taper	4.0	6.3	78.5	1000	5/pk	8004-0155	SG092018	8004-0105	SG092018
 Gooseneck, with wool	4.0	6.5	78.5	1000	5/pk	8004-0170	392611936	8004-0114	392611936
 Recessed gooseneck, with wool	4.0	6.3	78.5	1000	5/pk	8004-0153	SG092010	8004-0103	SG092010
 Gooseneck	2.0	6.5	78.5	250	5/pk	8004-0178	392611926	8004-0119	392611926
<b>Splitless Liners</b>									
 Straight, with wool	4.0	6.5	78.5	1000	5/pk	8004-0173	392611937	8004-0116	392611937
 Gooseneck	4.0	6.5	78.5	1000	5/pk	8004-0165	392611927	8004-0113	392611927
<b>Split Liners</b>									
 Straight-through	4.0	6.3	78.5	1000	5/pk	8004-0156	RT207732145 SG092007	8004-0106	SG092007
 Straight, with wool	4.0	6.3	78.5	1000	5/pk	8004-0154	SG092001 392611934	8004-0104	SG092001 392611934
 With frit, gooseneck	4.0	6.3	78.5	1000	5/pk	8004-0158	RT210462145		
<b>Direct Liners</b>									
 Straight-through	1.2	6.3	78.5	90	5/pk	8004-0157	SG092016	8004-0107	SG092016

\*Formerly Varian GC systems, now Bruker products

The cross references to the original equipment manufacturer (OEM) part numbers listed here serve as a recommendation that the CrossLab products are viable alternatives to OEM products. CrossLab products are compatible with the corresponding OEM instruments, although in some cases, the CrossLab products may have slightly different designs as compared to the OEM counterparts.

## Liners for 1078/1079 Injector Ports

Description	ID (mm)	OD (mm)	Length (mm)	Volume (µL)	Unit	Agilent Ultra Inert Deactivation	Similar to OEM Part No.	Agilent Original Deactivation	Similar to OEM Part No.
<b>Split/Splitless Liners</b>									
 Single taper	3.4	5.0	54	500	5/pk	8004-0160	RT209012145 SG092038	8004-0108	SG092038
 Gooseneck, with wool	2.0	5.0	54	250	5/pk			8004-0118	392611953
<b>Splitless Liners</b>									
 Single taper	2.0	5.0	54	170	5/pk	8004-0161	RT207122145 SG092039	8004-0109	SG092039
<b>Split Liners</b>									
 Gooseneck	3.4	5.0	54	500	5/pk	8004-0164	392611945	8004-0112	392611945
 With frit, gooseneck	3.4	5.0	54	500	5/pk	8004-0159	RT217092145		
 With frit, gooseneck	3.4	5.0	54	500	5/pk	8004-0171	392611946		
<b>Other Liners</b>									
 SPME, straight	0.8	5.0	54	30	5/pk	8004-0176	392611948		

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## Liners for 1093/1094 Injector Ports

Description	ID (mm)	OD (mm)	Length (mm)	Volume (µL)	Unit	Agilent Ultra Inert Deactivation	Similar to OEM Part No.	Agilent Original Deactivation	Similar to OEM Part No.
<b>Direct Liners</b>									
 SPL for 0.25/0.32 mm ID columns	0.5	4.6	54	10	5/pk	8004-0167	190010906		
 SPL with 0.5 mm restriction for 0.53 mm ID on-column	0.8	4.6	54	30	5/pk	8004-0162	SG092034 190010907	8004-0110	SG092034 190010907

## Liners for 1075/1077 Injector Ports

Description	ID (mm)	OD (mm)	Length (mm)	Volume (µL)	Unit	Agilent Ultra Inert Deactivation	Similar to OEM Part No.	Agilent Original Deactivation	Similar to OEM Part No.
<b>Split Liners</b>									
 With wool	4.0	6.3	72	1000	5/pk	8004-0163	SG092021 190010901	8004-0111	SG092021 190010901

## Liners for 1060/1061 Injector Ports

Description	ID (mm)	OD (mm)	Length (mm)	Volume (µL)	Unit	Agilent Ultra Inert Deactivation	Similar to OEM Part No.	Agilent Original Deactivation	Similar to OEM Part No.
<b>Direct Liners</b>									
 Double gooseneck	0.9	6.3	72	1000	5/pk	8004-0168	392611943		

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## Liner O-rings

Description	Unit	Part No.	Similar to OEM Part No.
Non-stick fluoroelastomer O-ring, 1177 split/splitless, 6.3/6.5 mm OD	10/pk	8004-0201	8850103100
Graphite O-ring, 1177 split/splitless, 6.5 mm OD	10/pk	8004-0202	392611930
Graphite O-ring, 1177 split/splitless, 6.3 mm OD	10/pk	8004-0203	392611935
Graphite liner seal, 1078/1079 injector, 5 mm ID	10/pk	8004-0204	392534201



Graphite O-rings

## Column Ferrules

### 60% Vespel/40% Graphite Capillary Column Ferrules

Injector	Fitting Size (in.)	Ferrule ID (mm)	Column ID (mm)	Hole	Unit	Part No.	Similar to OEM Part No.
1177, 1079	1/16	0.3	0.18 mm ID or smaller	1	10/pk	8004-0211	CR213103
	1/16	0.4	0.25	2	10/pk	8004-0213	CR213124
	1/16	0.425	0.25	1	10/pk	8004-0212	CR213104
	1/16	0.5	0.32	1	10/pk	8004-0214	CR213105
	1/16	0.5	0.32	2	10/pk	8004-0215	CR213125
1177, 1079, 1061, 1041	1/16	0.8	0.53	1	10/pk	8004-0216	CR213108

### 60% Vespel/40% Graphite Packed Column Ferrules

Injector	Fitting Size (in.)	Ferrule ID (in.)	Column OD (in.)	Hole	Unit	Part No.	Similar to OEM Part No.
1093, 1061, 1041	1/4	1/4	1/4	1	10/pk	8004-0217*	CR213400

\*Straight body

\*Formerly Varian GC systems, now Bruker products

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## Graphite Capillary Column Ferrules

Injector	Fitting Size (in.)	Ferrule ID (mm)	Column ID (mm)	Hole	Unit	Part No.	Similar to OEM Part No.
1177, 1079	1/16	0.4	0.25	1	10/pk	8010-0301	CR211104
	1/16	0.5	0.32	1	10/pk	8010-0302	CR211105
	1/16	0.5	0.32	2	10/pk	8010-0303	CR211125
1177, 1079, 1061, 1041	1/16	0.8	0.53	1	10/pk	8010-0304	CR211108

## Graphite Packed Column Ferrules

Injector	Fitting Size (in.)	Ferrule ID (in.)	Column OD (in.)	Hole	Unit	Part No.	Similar to OEM Part No.
1093, 1061, 1041	1/4	1/4	1/4	1	10/pk	8010-0305*	CR211400

\*Straight body

## Vespel Capillary Column Ferrules

Injector	Fitting Size (in.)	Ferrule ID (mm)	Column ID (mm)	Hole	Unit	Part No.	Similar to OEM Part No.
1177, 1079	1/16	0.3	0.18 mm ID or smaller	1	10/pk	8010-0306	CR212103
	1/16	0.4	0.25	1	10/pk	8010-0307	
	1/16	0.425	0.25	1	10/pk	8004-0219	CR212104
	1/16	0.5	0.32	1	10/pk	8010-0308	CR212105
	1/16	0.5	0.32	2	10/pk	8004-0218**	CR212125
1177, 1079, 1061, 1041	1/16	0.8	0.53	1	10/pk	8010-0309	CR212108

\*\*1177 Injector only

\*Formerly Varian GC systems, now Bruker products

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## Column Nuts

Description	Unit	Part No.	Similar to OEM Part No.
Column nut, brass, 1177, 1079, 1061, or 1041 injector	2/pk	8004-0311	394955100
Column nut, stainless steel, 1093 injector	2/pk	8004-0312	CP743117

## Autosampler Syringes, 1/pk

Model	Volume (µL)	Description	Needle Gauge/Length (mm)/Tip	Syringe	Similar to OEM Part No.	Replacement Needle	Replacement Plunger
Varian* CP8400, CP8410, CP9010, CP9050	10	Fixed needle	23/50/cone tip	8010-0351	SG002981		
		Fixed needle	26/50/bevel tip	8004-0001			
		Removable needle	26/50/cone tip	8004-0003	SG002982	8004-0004, 2/pk	
Varian* 8035, 8100, 8200		Fixed needle, gas tight	26/53/single hole tip	8004-0002			8004-0007
		Removable needle, gas tight	25/53/single hole tip	8004-0005		8004-0006, 2/pk	8004-0007

\*Formerly Varian GC systems, now Bruker products

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**Looking for Autosampler Vials?**

Please see page 42.

## Non-Stick Bleed and Temperature Optimized (BTO) Septa

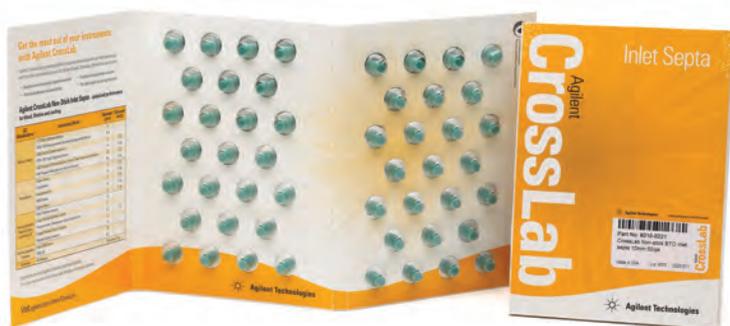
Description	50/pk	Similar to OEM Part No.	100/pk
9 mm, CenterGuide	8010-0217	CR298713	8010-0218
9.5 mm	8010-0219	CR298705	8010-0220
10 mm	8010-0221	CR298745	8010-0222
11 mm, CenterGuide	8010-0223	CR298717	8010-0224
11.5 mm, CenterGuide	8010-0225	CR298777	8010-0226

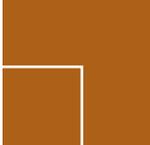
## Non-Stick Advanced Green Septa

Description	50/pk	Similar to OEM Part No.	100/pk
9 mm, CenterGuide	8010-0201	CR246713	8010-0202
9.5 mm	8010-0203	CR246124	8010-0204
10 mm	8010-0205		8010-0206
11 mm, CenterGuide	8010-0207	CR246225	8010-0208
11.5 mm, CenterGuide	8010-0209	CR246725	8010-0210

\*Formerly Varian GC systems, now Bruker products

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## Non-Stick Long-Life Septa

Description	50/pk	Similar to OEM Part No.	100/pk
9 mm, CenterGuide	8010-0233	CR239778	8010-0234
11 mm, CenterGuide	8010-0239	CR239287	8010-0240
11.5 mm, CenterGuide	8010-0241	CR239787	8010-0242

## General Purpose Septa

Description	50/pk	100/pk
9 mm	8010-0249	8010-0250
9.5 mm	8010-0251	8010-0252
10 mm	8010-0253	8010-0254
11 mm	8010-0255	8010-0256
11.5 mm	8010-0257	8010-0258

\*Formerly Varian GC systems, now Bruker products

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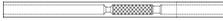
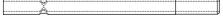
**Looking for Autosampler Vials?**

Please see page 42.



## CrossLab Supplies for PerkinElmer GC Systems

### Liners for AutoSystem, AutoSystem XL, Clarus Systems

Description	ID (mm)	OD (mm)	Length (mm)	Volume (µL)	Unit	Agilent Ultra Inert Deactivation	Similar to OEM Part No.	Agilent Original Deactivation	Similar to OEM Part No.
<b>Split/Splitless Liners</b>									
 PSS straight	2.0	4.0	86.2		5/pk	8003-0153	N6502002	8003-0103	
 PSS straight with bottom restriction	2.0	4.0	86.2	260	5/pk	8003-0158	N6121004		
 PSS on-column	2.0	4.0	86.2	250	5/pk	8003-0165	N6101539	8003-0110	N6101539
 PSS straight	1.0	4.0	86.2	65	5/pk	8003-0157	N6121006		
<b>Split/Large Volume Splitless Liners</b>									
 Straight with bottom restriction	4.0	6.2	92.1	1150	5/pk	8003-0159	N6121001	8003-0105	N6121001
<b>Splitless Liners</b>									
 Straight	2.0	6.2	92.1	300	5/pk	8003-0162	N6101372	8003-0107	N6101372
<b>Split Liners</b>									
 Straight-through	4.0	6.2	92.1	1150	5/pk	8003-0151		8003-0101	
 Straight, wool	4.0	6.2	92.1	1100	5/pk	8003-0160	N6121020	8003-0106	N6121020
 Straight with bottom restriction	4.0	6.2	92.1	1100	5/pk	8003-0166	N6101052	8003-0111	N6101052

(Continued)

The cross references to the original equipment manufacturer (OEM) part numbers listed here serve as a recommendation that the CrossLab products are viable alternatives to OEM products. CrossLab products are compatible with the corresponding OEM instruments, although in some cases, the CrossLab products may have slightly different designs as compared to the OEM counterparts.



## Liners for AutoSystem, AutoSystem XL, Clarus Systems

Description	ID (mm)	OD (mm)	Length (mm)	Volume (µL)	Unit	Agilent Ultra Inert Deactivation	Similar to OEM Part No.	Agilent Original Deactivation	Similar to OEM Part No.
<b>Direct Liners</b>									
 Gooseneck, drilled hole on top, wool	4.0	6.2	92.1		5/pk	8003-0155	N6121022		
<b>Other Liners</b>									
 Packed column, straight	3.0	6.2	112	800	5/pk	8003-0163	N6121000	8003-0108	N6121000
 Programmable on-column, hour glass	2.2	4.0	16		5/pk			8003-0109*	N6101703
 PTV, 0.25 mm ID restriction, recessed gooseneck	1.0	2.0	88	70	5/pk	8003-0154		8003-0104	

\*P/N 8003-0109 is not deactivated

## Liner O-rings

Description	Unit	Part No.	Similar to OEM Part No.
Non-stick fluoroelastomer O-ring	10/pk	8010-0401	N9302783
Non-stick fluoroelastomer O-ring, PSS Injector	10/pk	8003-0202	N6101747
Silicone O-ring	10/pk	8003-0203	N6101374
Graphite O-ring, PSS Injector	10/pk	8003-0204	N6101751
Graphite O-ring	10/pk	8003-0205	N6101378

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## Column Ferrules

### 85% Vespel/15% Graphite Capillary Column Ferrules

Model	Fitting Size (in.)	Ferrule ID (mm)	Column ID (mm)	Hole	Unit	Part No.	Similar to OEM Part No.
AutoSystem, Autosystem XL, Clarus	1/16	0.4	0.25	1	10/pk	8010-0310	09920104
	1/16	0.4	0.25	2	10/pk	8010-0312	04972392
	1/16	0.5	0.32	1	10/pk	8010-0311	09920105
	1/16	0.5	0.32	2	10/pk	8003-0216	N9306000
	1/16	0.8	0.53	1	10/pk	8010-0313	09920107

### 85% Vespel/15% Graphite Packed Column Ferrules

Model	Fitting Size (in.)	Ferrule ID (in.)	Column OD (in.)	Hole	Unit	Part No.	Similar to OEM Part No.
AutoSystem, Autosystem XL, Clarus	1/4	1/4	1/4	1	10/pk	8010-0314	09903739
	1/8	1/8	1/8	1	10/pk	8003-0219	N9302081
	1/16	1/16	1/16	1	10/pk	8010-0315	09920127

### Graphite Capillary Column Ferrules

Model	Fitting Size (in.)	Ferrule ID (mm)	Column ID (mm)	Hole	Unit	Part No.	Similar to OEM Part No.
AutoSystem, Autosystem XL, Clarus	1/16	0.4	0.25	1	10/pk	8010-0301	
	1/16	0.5	0.32	1	10/pk	8010-0302	09903700
	1/16	0.5	0.32	2	10/pk	8010-0303	N9306001
	1/16	0.8	0.53	1	10/pk	8010-0304	09920141

### Graphite Packed Column Ferrules

Model	Fitting Size (in.)	Ferrule ID (in.)	Column OD (in.)	Hole	Unit	Part No.	Similar to OEM Part No.
AutoSystem, Autosystem XL, Clarus	1/4	1/4	1/4	1	10/pk	8010-0305	09920140
	1/8	1/8	1/8	1	10/pk	8003-0212	09903915
	1/16	1/16	1/16	1	10/pk	8003-0211	02450972

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## Vespel Capillary Column Ferrules

Model	Fitting Size (in.)	Ferrule ID (mm)	Column ID (mm)	Hole	Unit	Part No.
AutoSystem, Autosystem XL, Clarus	1/16	0.3	0.18 mm ID or smaller	1	10/pk	8010-0306
	1/16	0.4	0.25	1	10/pk	8010-0307
	1/16	0.5	0.32	1	10/pk	8010-0308
	1/16	0.8	0.53	1	10/pk	8010-0309

## Vespel Packed Column Ferrules

Model	Fitting Size (in.)	Ferrule ID (in.)	Column OD (in.)	Hole	Unit	Part No.	Similar to OEM Part No.
AutoSystem, Autosystem XL, Clarus	1/4	1/4	1/4	1	10/pk	8003-0223	N9301361
	1/8	1/8	1/8	1	10/pk	8003-0222	N9301360
	1/16	1/16	1/16	1	10/pk	8003-0221	

## Column Nuts

Description	Unit	Part No.	Similar to OEM Part No.
Column nut, 1/16 in.	2/pk	8003-0311	09903392

## Autosampler Syringes, 1/pk

Model	Volume ( $\mu$ L)	Description	Needle Gauge/ Length (mm)/ Tip	Syringe	Similar to OEM Part No.	Replacement Needle and Plunger Repair Kit	Similar to OEM Part No.
AutoSystem, Autosystem XL, Clarus	0.5	Removable needle	23/70/cone tip	8003-0005	N6101252	8003-0006	N6101469
		Removable needle	26/70/bevelled cone tip	8003-0007		8003-0008	
AutoSystem, Autosystem XL, Clarus	5	Fixed needle	23/70/cone tip	8003-0001	N6101251		
		Fixed needle, gas tight	23/70/cone tip	8003-0002	N6101390		
		Fixed needle	26/70/cone tip	8003-0003	N6101380		
AutoSystem, Autosystem XL, Clarus	50	Fixed needle	23/70/cone tip	8003-0004	N6101760		

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### Non-Stick Bleed and Temperature Optimized (BTO) Septa

Description	50/pk	Similar to OEM Part No.	100/pk
11 mm, CenterGuide	8010-0223	N9302972	8010-0224

### Non-Stick Advanced Green Septa

Description	50/pk	Similar to OEM Part No.	100/pk
11 mm, CenterGuide	8010-0207	N6621028 N9306219	8010-0208

### Non-Stick Long-Life Septa

Description	50/pk	100/pk
11 mm, CenterGuide	8010-0239	8010-0240

### General Purpose Septa

Description	50/pk	Similar to OEM Part No.	100/pk
11 mm	8010-0255	54019985	8010-0256

The cross references to the original equipment manufacturer (OEM) part numbers listed here serve as a recommendation that the CrossLab products are viable alternatives to OEM products. CrossLab products are compatible with the corresponding OEM instruments, although in some cases, the CrossLab products may have slightly different designs as compared to the OEM counterparts.

#### Looking for Autosampler Vials?

Please see page 42.





## CrossLab Supplies for Shimadzu GC Systems

### Liners for 2014 Systems

Description	ID (mm)	OD (mm)	Length (mm)	Volume (µL)	Unit	Agilent Ultra Inert Deactivation	Similar to OEM Part No.	Agilent Original Deactivation	Similar to OEM Part No.
<b>Splitless Liners</b>									
 Single taper, wool	3.5	5.0	95		5/pk	8001-0160	221-48876-02		
 Double taper, drilled hole near top	3.5	5.0	95		5/pk	8001-0158	220-94734-01		
 Double taper, drilled hole near bottom	3.5	5.0	95		5/pk	8001-0159	220-94734-02		
 Straight-through	2.6	5.0	95	500	5/pk	8001-0151	220-94767-00	8001-0101	220-94767-00
<b>Split Liners</b>									
 Straight with middle restriction	3.5	5.0	95	800	5/pk	8001-0156	221-41444-01	8001-0106	221-41444-01
 Straight with middle restriction, wool	3.5	5.0	95	800	5/pk	8001-0157	220-90784-00		
 Straight-through	3.4	5.0	95	860	5/pk	8001-0153		8001-0103	
<b>Direct Liners</b>									
 For 0.53 mm ID column	2.6	5.0	95	450	5/pk	8001-0152	220-94768-00	8001-0102	220-94768-00

The cross references to the original equipment manufacturer (OEM) part numbers listed here serve as a recommendation that the CrossLab products are viable alternatives to OEM products. CrossLab products are compatible with the corresponding OEM instruments, although in some cases, the CrossLab products may have slightly different designs as compared to the OEM counterparts.

## Liners for 2010 and 2010 Plus Systems

Description	ID (mm)	OD (mm)	Length (mm)	Volume (μL)	Unit	Agilent Ultra Inert Deactivation	Similar to OEM Part No.	Agilent Original Deactivation	Similar to OEM Part No.
<b>Split/Splitless Liners</b>									
 Single taper	3.4	5.0	95		5/pk	8001-0154	961-01480-07 221-48335-01	8001-0104	221-48335-01
<b>Splitless Liners</b>									
 Single taper, wool	3.5	5.0	95		5/pk	8001-0160	221-48876-02		
 Double taper, drilled hole near top	3.5	5.0	95		5/pk	8001-0158	220-94734-01		
 Double taper, drilled hole near bottom	3.5	5.0	95		5/pk	8001-0159	220-94734-02		
 Straight-through	2.6	5.0	95	500	5/pk	8001-0151	220-94767-00	8001-0101	220-94767-00
<b>Split Liners</b>									
 Straight-through	3.4	5.0	95	860	5/pk	8001-0153		8001-0103	
 Straight with middle restriction	3.5	5.0	95	800	5/pk	8001-0156	221-41444-01	8001-0106	221-41444-01
 Straight with middle restriction, wool	3.5	5.0	95	800	5/pk	8001-0157	220-90784-00		
<b>Other Liners</b>									
 PTV	1.25	3.5	95	100	5/pk	8001-0163	221-49300-00		
 SPME or Purge and Trap, straight	0.75	5.0	95	50	5/pk	8001-0162	220-94769-00		

The cross references to the original equipment manufacturer (OEM) part numbers listed here serve as a recommendation that the CrossLab products are viable alternatives to OEM products. CrossLab products are compatible with the corresponding OEM instruments, although in some cases, the CrossLab products may have slightly different designs as compared to the OEM counterparts.

## Liners for 17A Systems

Description	ID (mm)	OD (mm)	Length (mm)	Volume (μL)	Unit	Agilent Ultra Inert Deactivation	Similar to OEM Part No.	Agilent Original Deactivation	Similar to OEM Part No.
<b>Splitless Liners</b>									
 Single taper, wool	3.5	5.0	95		5/pk	8001-0160	221-48876-02		
 Double taper, drilled hole near top	3.5	5.0	95		5/pk	8001-0158	220-94734-01		
 Double taper, drilled hole near bottom	3.5	5.0	95		5/pk	8001-0159	220-94734-02		
 Straight-through	2.6	5.0	95	500	5/pk	8001-0151	220-94767-00	8001-0101	220-94767-00
<b>Split Liners</b>									
 Straight with middle restriction, wool	3.5	5.0	95	800	5/pk	8001-0157	220-90784-00		
 Straight-through	3.4	5.0	95	860	5/pk	8001-0153		8001-0103	
<b>Direct Liners</b>									
 For 0.53 mm ID column	2.6	5.0	95	450	5/pk	8001-0152	220-94768-00	8001-0102	220-94768-00

The cross references to the original equipment manufacturer (OEM) part numbers listed here serve as a recommendation that the CrossLab products are viable alternatives to OEM products. CrossLab products are compatible with the corresponding OEM instruments, although in some cases, the CrossLab products may have slightly different designs as compared to the OEM counterparts.



## Liners for 14 Systems

Description	ID (mm)	OD (mm)	Length (mm)	Volume (µL)	Unit	Agilent Ultra Inert Deactivation	Agilent Original Deactivation
<b>Split/ Splitless Liners</b>							
 2.0 mm middle gooseneck	3.4	5.0	99	850	5/pk	8001-0155	8001-0105



Graphite O-rings

## Liner O-rings

Description	Unit	Part No.	Similar to OEM Part No.
Non-stick fluoroelastomer O-ring	10/pk	8001-0201	036-11203-84
Graphite O-ring, split	10/pk	8001-0202	221-48393-91
Graphite O-ring, splitless	10/pk	8001-0203	221-47222-91

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## Column Ferrules

### 85% Vespel/15% Graphite Capillary Column Ferrules

Model	Fitting Size (in.)	Ferrule ID (mm)	Column ID (mm)	Hole	Unit	Part No.	Similar to OEM Part No.
QP5000/5050 Standard MS	1/16	0.3	0.18 mm ID or smaller	1	10/pk	8001-0224	220-90700-01
	1/16	0.4	0.25	1	10/pk	8001-0221	220-90700-02
	1/16	0.5	0.32	1	10/pk	8001-0222	220-90700-03
	1/16	0.8	0.53	1	10/pk	8001-0223	220-90700-04
QP2010	1/16	0.4	0.25	1	10/pk	8010-0310	220-90418-14
	1/16	0.4	0.25	2	10/pk	8010-0312	225-19056-00
	1/16	0.5	0.32	1	10/pk	8010-0311	220-90418-15
	1/16	0.8	0.53	1	10/pk	8010-0313	220-90418-18

### 85% Vespel/15% Graphite Packed Column Ferrules

Model	Fitting Size (in.)	Ferrule ID (in.)	Column OD (in.)	Hole	Unit	Part No.	Similar to OEM Part No.
QP5000/5050 Standard MS	1/4	1/4	1/4	1	10/pk	8010-0314	225-09028-00
QP5000/5050 Wide Bore MS	1/16	1/16	1/16	1	10/pk	8010-0315	220-90418-28
QP2010	1/16	1/16	1/16	1	10/pk	8010-0315	
17A	5 mm	5 mm	5 mm OD	1	10/pk	8001-0214	221-46403-92

### Graphite Capillary Column Ferrules

Model	Fitting Size (in.)	Ferrule ID (mm)	Column ID (mm)	Hole	Unit	Part No.	Similar to OEM Part No.
2010, 2010 Plus, 2014, 17A, 14A	1/16	0.4	0.25	1	10/pk	8001-0211	220-90765-00
	1/16	0.5	0.32	1	10/pk	8001-0212	221-32126-05
	1/16	0.8	0.53	1	10/pk	8001-0213	221-32126-08

The cross references to the original equipment manufacturer (OEM) part numbers listed here serve as a recommendation that the CrossLab products are viable alternatives to OEM products. CrossLab products are compatible with the corresponding OEM instruments, although in some cases, the CrossLab products may have slightly different designs as compared to the OEM counterparts.



## Column Nuts

Description	Unit	Part No.	Similar to OEM Part No.
Column nut, slotted, 6-sided	2/pk	8001-0311	221-32705-00
Column nut, no slot, 6-sided	2/pk	8001-0312	221-41533-00

## Autosampler Syringes, 1/pk

Model	Volume (µL)	Description	Needle Gauge/Length (mm)/Tip	Syringe	Similar to OEM Part No.	Replacement Needle	Similar to OEM Part No.
AOC-14, AOC-17, AOC-20	5	Fixed needle	23/42/cone tip	8001-0001			
AOC-14, AOC-17, AOC-20	10	Removable needle	23/42/cone tip	8001-0004	220-90282-20	8001-0005, 2/pk	220-90281-20
AOC-14, AOC-17, AOC-20		Removable needle	26/42/cone tip	8001-0006	220-90282-21	8001-0007, 2/pk	220-90281-21
AOC-14, AOC-17, AOC-20	50	Fixed needle	23/42/cone tip	8001-0002	221-45243-00		
AOC-14, AOC-17, AOC-20	250	Fixed needle, gas tight	23/42/cone tip	8001-0003	221-45244-00		

The cross references to the original equipment manufacturer (OEM) part numbers listed here serve as a recommendation that the CrossLab products are viable alternatives to OEM products. CrossLab products are compatible with the corresponding OEM instruments, although in some cases, the CrossLab products may have slightly different designs as compared to the OEM counterparts.



**Looking for Autosampler Vials?**  
Please see page 42.



## Non-Stick Bleed and Temperature Optimized (BTO) Septa

Description	50/pk	100/pk
Shimadzu plug	8010-0231	8010-0232



## Non-Stick Advanced Green Septa

Description	50/pk	Similar to OEM Part No.	100/pk
Shimadzu plug	8010-0215	220-90547-00 220-94781-00	8010-0216

## General Purpose Septa

Description	50/pk	100/pk
Shimadzu plug	8010-0263	8010-0264

The cross references to the original equipment manufacturer (OEM) part numbers listed here serve as a recommendation that the CrossLab products are viable alternatives to OEM products. CrossLab products are compatible with the corresponding OEM instruments, although in some cases, the CrossLab products may have slightly different designs as compared to the OEM counterparts.

# CrossLab Supplies for Thermo Scientific GC Systems

## Liners for Trace, Focus Systems

Description	ID (mm)	OD (mm)	Length (mm)	Volume (µL)	Unit	Agilent Ultra Inert Deactivation	Similar to OEM Part No.	Agilent Original Deactivation	Similar to OEM Part No.
<b>Splitless Liners</b>									
 Single taper	5.0	8.0	105	1750	5/pk	8002-0153	45350033	8002-0103	45350033
 Straight	3.0	8.0	105	750	5/pk	8002-0152	45350031	8002-0102	45350031
 Single taper	3.0	8.0	105		5/pk	8002-0154	45350032	8002-0104	45350032
<b>Split Liners</b>									
 Straight	5.0	8.0	105	2000	5/pk	8002-0151	45350030	8002-0101	45350030
<b>PTV Liners</b>									
 Straight	2.0	2.75	120	375	5/pk	8002-0156*	45322045	8002-0106*	45322045
 Straight with bottom restriction	2.0	2.75	120	375	5/pk	8002-0157	45352057	8002-0107	45352057
 6 baffles	2.0	2.75	120		5/pk	8002-0160*	453T2120		
 Straight	1.75	2.75	120	300	5/pk	8002-0155		8002-0105	
 Straight	1.0	2.75	120	90	5/pk	8002-0161	45352054		
 3 baffles	1.0	2.75	120		5/pk	8002-0159*	45352062		

\*Use in Trace systems only

The cross references to the original equipment manufacturer (OEM) part numbers listed here serve as a recommendation that the CrossLab products are viable alternatives to OEM products. CrossLab products are compatible with the corresponding OEM instruments, although in some cases, the CrossLab products may have slightly different designs as compared to the OEM counterparts.

## Liner O-rings

Description	Unit	Part No.	Similar to OEM Part No.
Non-stick fluoroelastomer O-ring, sintered liner	10/pk	8002-0201	29031305
Non-stick fluoroelastomer O-ring	10/pk	8010-0401	29030306
Graphite O-ring, 8 mm OD	2/pk	8002-0203	29033406
Graphite O-ring, PTV	2/pk	8002-0204	29013417

## Column Ferrules

### 85% Vespel/15% Graphite Capillary Column Ferrules

Model	Fitting Size (in.)	Ferrule ID (mm)	Column ID (mm)	Hole	Unit	Part No.	Similar to OEM Part No.
Injectors/Detectors	1/16	0.4	0.25	1	10/pk	8002-0220	290VT186
	1/16	0.5	0.32	1	10/pk	8002-0221	290VT187
	1/16	0.8	0.53	1	10/pk	8002-0222	290VT188
Any GC/MS Interface	1/16	0.4	0.25	1	10/pk	8010-0310	29033496
	1/16	0.5	0.32	1	10/pk	8010-0311	29033497

### Graphite Capillary Column Ferrules

Model	Fitting Size (in.)	Ferrule ID (mm)	Column ID (mm)	Hole	Unit	Part No.	Similar to OEM Part No.
Trace/Focus Injectors/Detectors (not for GC/MS Interface)	M4	0.3	0.18 mm ID or smaller	1	10/pk	8002-0211	
	M4	0.4	0.25	1	10/pk	8002-0212	29053488
	M4	0.5	0.32	1	10/pk	8002-0213	29053487
	M4	0.8	0.53	1	10/pk	8002-0214	29053486
Injectors/Detectors	1/16	0.4	0.25	1	10/pk	8002-0215	
	1/16	0.5	0.32	1	10/pk	8002-0216	
	1/16	0.8	0.53	1	10/pk	8002-0217	

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## Column Nuts

Description	Unit	Part No.	Similar to OEM Part No.
Column nut, stainless steel, split/splitless injector	2/pk	8002-0311	35032423
Column nut, brass	2/pk	8002-0312	290BT239

## Autosampler Syringes, 1/pk

Model	Volume (µL)	Description	Needle Gauge/Length (mm)/Tip	Syringe	Similar to OEM Part No.	Replacement Plunger or Needle	Similar to OEM Part No.
TriPlus, AS3000	0.5	Plunger-in-needle	23/50/cone tip	8010-0355	36504045	8010-0367*	
TriPlus	5	Fixed needle	26/50/cone tip	8010-0353	36504047		
TriPlus, AS3000, AS2000, AS200, AS800	10	Fixed needle	23/50/cone tip	8010-0351	36520060		
		Fixed needle	26/50/cone tip	8010-0352	365D3711		
		Fixed needle	25/50/cone tip	8002-0003	36500525		
TriPlus, AS2000		Fixed needle	23/80/cone tip	8002-0002	36520061		
		Fixed needle	26/80/cone tip	8002-0001	36502019		
TriPlus, AS2000, AS200, AS800	100	Fixed needle, gas tight	23/50/cone tip	8010-0354		8010-0368**	
TriPlus, AS2000		Removable needle, gas tight	23/50/side hole tip	8002-0004	36520050	8002-0005***	36540040

\*Needle and plunger repair kit

\*\*Replacement plunger

\*\*\*Replacement needle

The cross references to the original equipment manufacturer (OEM) part numbers listed here serve as a recommendation that the CrossLab products are viable alternatives to OEM products. CrossLab products are compatible with the corresponding OEM instruments, although in some cases, the CrossLab products may have slightly different designs as compared to the OEM counterparts.



### Looking for Autosampler Vials?

Please see page 42.





## Non-Stick Bleed and Temperature Optimized (BTO) Septa

Description	50/pk	Similar to OEM Part No.	100/pk	Similar to OEM Part No.
9 mm, CenterGuide	8010-0217	31303240	8010-0218	
9.5 mm	8010-0219		8010-0220	
10 mm	8010-0221		8010-0222	
11 mm, CenterGuide	8010-0223		8010-0224	
11.5 mm, CenterGuide	8010-0225	31303230	8010-0226	
Description	24/pk		48/pk	
12.7 mm, CenterGuide	8010-0227		8010-0228	31303228
17 mm, CenterGuide	8010-0229		8010-0230	31303211

## Non-Stick Advanced Green Septa

Description	50/pk	Similar to OEM Part No.	100/pk	Similar to OEM Part No.
9 mm, CenterGuide	8010-0201	313G3240	8010-0202	
9.5 mm	8010-0203		8010-0204	
10 mm	8010-0205		8010-0206	
11 mm, CenterGuide	8010-0207	313G3230	8010-0208	
11.5 mm, CenterGuide	8010-0209		8010-0210	
Description	24/pk		48/pk	
12.7 mm, CenterGuide	8010-0211		8010-0212	313G3228
17 mm, CenterGuide	8010-0213		8010-0214	313G3211

The cross references to the original equipment manufacturer (OEM) part numbers listed here serve as a recommendation that the CrossLab products are viable alternatives to OEM products. CrossLab products are compatible with the corresponding OEM instruments, although in some cases, the CrossLab products may have slightly different designs as compared to the OEM counterparts.

## Non-Stick Long-Life Septa

Description	50/pk	100/pk
9 mm, CenterGuide	8010-0233	8010-0234
11 mm, CenterGuide	8010-0239	8010-0240
11.5 mm, CenterGuide	8010-0241	8010-0242
Description	24/pk	48/pk
12.7 mm, CenterGuide	8010-0243	8010-0244
17 mm, CenterGuide	8010-0245	8010-0246

## General Purpose Septa

Description	50/pk	100/pk
9 mm	8010-0249	8010-0250
9.5 mm	8010-0251	8010-0252
10 mm	8010-0253	8010-0254
11 mm	8010-0255	8010-0256
11.5 mm	8010-0257	8010-0258
12.7 mm	8010-0259	8010-0260
17 mm	8010-0261	8010-0262

The cross references to the original equipment manufacturer (OEM) part numbers listed here serve as a recommendation that the CrossLab products are viable alternatives to OEM products. CrossLab products are compatible with the corresponding OEM instruments, although in some cases, the CrossLab products may have slightly different designs as compared to the OEM counterparts.

## CrossLab CTC Autosampler Syringes

Agilent's CrossLab portfolio includes a variety of syringes compatible with CTC Analytics GC PAL and CombiPAL systems.

- Syringe capacities from 0.5  $\mu$ L to 2.5 mL
- Fixed and removable needles
- Several needle tip styles to suit your application requirements
- High temperature syringes for headspace application with temperatures up to 150 °C
- PTFE plunger seal option for smooth, leak-free operation
- Syringe specifications are matched to CTC holders to ensure proper fit and reliable functioning



### Autosampler Syringes for CTC CombiPAL and GC PAL, 1/pk

Volume ( $\mu$ L)	Description	Needle Gauge/Length (mm)/Tip	Syringe	Replacement Plunger or Needle
0.5	Plunger-in-needle	23/50/cone tip	8010-0355	8010-0367*
5	Fixed needle	23/50/cone tip	8010-0356	
	Fixed needle	26/50/cone tip	8010-0353	
10	Fixed needle	23/50/cone tip	8010-0351	
	Fixed needle	25/50/cone tip	8002-0003	
	Fixed needle	26/50/cone tip	8010-0352	
	Fixed needle, gas tight	26/50/cone tip	8010-0357	8010-0359**
	Fixed needle	26/50/bevel tip	8010-0358	
25	Fixed needle	26/50/cone tip	8010-0360	
100	Fixed needle, gas tight	23/50/cone tip	8010-0354	
	Removable needle, gas tight	23/50/side hole tip	8002-0004	8002-0005***
	Fixed needle	26/50/cone tip	8010-0361	
250	Fixed needle, gas tight	26/50/cone tip	8010-0362	
Volume (mL)	Description	Needle Gauge/Length (mm)/Tip	Syringe	Replacement Plunger
1	Fixed needle, gas tight, headspace	23/56/side hole tip	8010-0363	8010-0365
2.5	Fixed needle, gas tight, headspace	23/56/side hole tip	8010-0364	8010-0366

\*Needle and plunger repair kit

\*\*Replacement plunger

\*\*\*Replacement needle

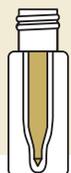
# CrossLab Vials and Closures

CrossLab Vial Compatibility						
Manufacturer	Autosampler	8 mm Screw Top	9 mm Screw Top	15 x 45 mm, 4 mL	11 mm Crimp Top	Headspace
Bruker, Varian*	CP-8410		◆	◆	◆	
	8034/8035/8100/8200	◆	◆		◆	
	9095/9100	◆	◆		◆	
	Prostar 400/410/420	◆	◆		◆	
	Prostar 430	◆	◆		◆	
	Genesis					◆
PerkinElmer	Autosystem GC/XL/AS-2000	◆	◆	◆	◆	
	Clarus 500/600		◆		◆	
	Integral 4000	◆	◆		◆	
	TurboMatrix 40/110					◆
	ISS-100/200	◆	◆		◆	
	HS16/40					◆
	LC Plus	◆	◆	◆		
	LC 600 42 vial tray		◆			
Shimadzu	AOC 88/9	◆	◆		◆	
	AOC-5000	◆	◆		◆	Magnetic
	AOC-20		◆	◆	◆	
	AOC14/1400	◆	◆		◆	
	HSS-2B/4B					◆
	SIL-6A/6B/9A	With flange				
	SIL-10A, SIL-10Ai, SIL-10AxL	◆	◆			
	SIL-HT/10ADVP	◆	◆		◆	
	LC 2010	◆	◆		◆	
	Thermo Scientific	SURVEYOR LC	◆	◆		◆
AS 3000/TRACE GC			◆		◆	
TriPlus			◆		◆	
A-200S/AS 150/800/8000		◆	◆		◆	
CTC Analytics	CombiPal		◆	◆	◆	Magnetic
Waters	Acquity	◆	◆		◆	
	Alliance 2690	◆	◆			
	CapLC	◆	◆		◆	
	WISP			◆		
	717 Plus				◆	

\*Formerly Varian GC systems, now Bruker products

## Agilent CrossLab Vial Identification Chart with Recommended Fill Volumes

**Wide Opening Screw Top Vials (9 mm)**



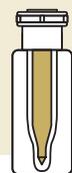
<b>Dimensions:</b>	32 mm x 12 mm	32 mm x 12 mm	32 mm x 12 mm
<b>Recommended Fill:</b>	1.7 mL	1.3 mL	0.3 mL
<b>Part Number:</b>	8010-0014	8010-0018	8010-0008
<b>Recommended Cap*:</b>	8010-0086	8010-0086	8010-0086

**Narrow Opening Screw Top Vials (8 mm)**



<b>Dimensions:</b>	32 mm x 12 mm
<b>Recommended Fill:</b>	1.5 mL
<b>Part Number:</b>	8010-0010
<b>Recommended Cap*:</b>	8010-0061

**Wide Opening Crimp Top Vials (11 mm)**



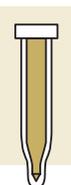
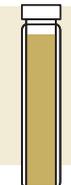
<b>Dimensions:</b>	32 mm x 12 mm	32 mm x 12 mm	32 mm x 12 mm
<b>Recommended Fill:</b>	1.7 mL	1.3 mL	0.3 mL
<b>Part Number:</b>	8010-0001	8010-0004	8010-0006
<b>Recommended Cap*:</b>	8010-0050	8010-0050	8010-0050

**Wide Opening Snap Top Vials**



<b>Dimensions:</b>	32 mm x 12 mm	32 mm x 12 mm
<b>Recommended Fill:</b>	1.5 mL	1.3 mL
<b>Part Number:</b>	8010-0023	8010-0028
<b>Recommended Cap*:</b>	8010-0108	8010-0108

**Micro Vials**



<b>Dimensions:</b>	40 mm x 7 mm	32 mm x 5.5 mm
<b>Recommended Fill:</b>	0.8 mL	0.1 mL
<b>Part Number:</b>	8010-0153	8010-0154
<b>Recommended Cap*:</b>	8010-0516	8010-0516



<b>Dimensions:</b>	32 mm x 5.5 mm
<b>Recommended Fill:</b>	250 µL
<b>Part Number:</b>	8010-0155
<b>Recommended Cap*:</b>	8010-0516

**Polypropylene Vials**

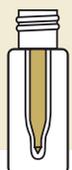
**Crimp/Snap Top**



<b>Dimensions:</b>	32 mm x 12 mm	32 mm x 12 mm
<b>Recommended Fill:</b>	250 µL	250 µL
<b>Part Number:</b>	8010-0158	8010-0160
<b>Recommended Cap*:</b>	8010-0050	8010-0050

Glass Insert

**Screw Top**



<b>Dimensions:</b>	32 mm x 12 mm	32 mm x 12 mm
<b>Recommended Fill:</b>	0.7 mL	250 µL
<b>Part Number:</b>	8010-0159	8010-0161
<b>Recommended Cap*:</b>	8010-0050	8010-0086

Glass Insert



<b>Dimensions:</b>	32 mm x 12 mm
<b>Recommended Fill:</b>	250 µL
<b>Part Number:</b>	8010-0162
<b>Recommended Cap*:</b>	8010-0086

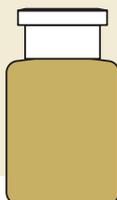
Glass Insert

**Headspace Vials**



<b>Dimensions:</b>	45 mm x 22 mm	45 mm x 22 mm	75 mm x 22 mm	75 mm x 22 mm	75 mm x 22 mm	45 mm x 22 mm	75 mm x 22 mm
<b>Recommended Fill:</b>	10 mL	10 mL	20 mL	20 mL	20 mL	10 mL	20 mL
<b>Part Number:</b>	8010-0029	8010-0030	8010-0033	8010-0034	8010-0152	8010-0038	8010-0042
<b>Recommended Cap*:</b>	8010-0116	8010-0116	8010-0116	8010-0116	8010-0116	8010-0139	8010-0139

**Specialty Vials**



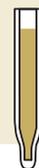
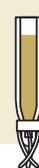
<b>Dimensions:</b>	37 mm x 22 mm	45 mm x 15 mm	37 mm x 22 mm
<b>Recommended Fill:</b>	6 mL	4 mL	6 mL
<b>Part Number:</b>	8010-0151	8010-0020	8010-0022
<b>Recommended Cap*:</b>	8010-0116	8010-0095	8010-0101

**Inserts for Wide Opening Vials (11 mm & 9 mm)**



<b>Dimensions:</b>	30 mm x 5.6 mm	31 mm x 5.6 mm	31 mm x 5.6 mm
<b>Recommended Fill:</b>	250 µL	250 µL	400 µL
<b>Part Number:</b>	8010-0131	8010-0132	8010-0136

**Inserts for Narrow Opening Vials (8 mm)**



<b>Dimensions:</b>	28 mm x 4.8 mm	31 mm x 4.8 mm	31 mm x 4.8 mm
<b>Recommended Fill:</b>	150 µL	150 µL	200 µL
<b>Part Number:</b>	8010-0124	8010-0125	8010-0126

\*Caps are available in a variety of colors

## Septa Chemical Compatibility

	PTFE	PTFE/ Silicone	PTFE/ Silicone/ PTFE*	PTFE/ Red Rubber	Viton	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.

Agilent provides this septa compatibility information as a guide and starting reference point. We realize that chemical compatibility can vary depending on the concentration of the solvent, temperature, molecular weight of the solvent, and other factors. Therefore, it is always recommended that you try a variety of septa to determine the best one for your analysis.

## Cap and Septa Compatibility

	Thin PTFE	PTFE/ Silicone*	PTFE/ Silicone/ PTFE*	PTFE/ Red Rubber	Viton	Butyl
<b>Temperature Range</b>	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
<b>Use for multiple injections?</b>	No	Yes	Yes	No	No	No
<b>Price</b>	Very economical	Economical	Most expensive	Very economical	Economical	Economical
<b>Resistance to coring</b>	None	Excellent	Excellent	None	None	None
<b>Recommended for storage</b>	No	Yes	Yes	No	No	No
<b>Best for:</b>	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 trace analysis, repeat injections, internal standards	Chlorosilanes, more economical option for single injections	Use with chlorinated solvents, higher temperatures	Use with organic solvents, acetic acids: impermeable to gasses

\*Agilent CrossLab silicone is platinum cured (versus peroxide cured) making it more inert and less likely to interact with samples.



## CrossLab Screw Top Vials and Closures

Combine the excellent autosampler handling of a crimp cap profile with the ease of a screw cap. CrossLab screw caps and precision fit septa give a secure seal with microvolume inserts.

### 2 mL Wide Opening (9 mm) Screw Top Vials and Closures



Wide opening screw top vials, 8010-0015

- 2 mL, 12 x 32 mm, 9 mm diameter
- Available in unique packaging designed to reduce vial breakage
- Wider opening prevents syringe problems
- Unique thread design for consistently secure seal
- Precision-formed neck for optimal robotic arm handling
- Optional ceramic write-on spot with fill marks

### 2 mL Wide Opening (9 mm) Screw Top Glass Vials



Wide opening screw top vials with write-on spot, 8010-0014

Description	100/pk	1000/cs
Clear	8010-0015	
Clear, write-on spot	8010-0014	8010-0175
Amber	8010-0017	
Amber, write-on spot	8010-0016	8010-0176
<b>Screw Top Vials with Fixed Inserts</b>		
Clear, 300 µL insert volume	8010-0008	
Amber, 300 µL insert volume	8010-0009	

Currently using a different manufacturer's vials and closures for your instrument? See the Cross Reference List on pages 63-68 to switch to CrossLab.

**To obtain an optimal fit and seal of any vial and closure, we strongly recommend buying an entire CrossLab vial assembly (including a vial, cap, and septum, as well as a vial insert if needed). Please avoid mixing and matching any CrossLab vials with any other brand of closures, or any CrossLab closures with any other brand of vials.**

**Screw Caps for Wide Opening (9 mm) Vials**

Color	Septa Type	100/pk	1000/cs
Blue	PTFE/silicone	8010-0086	
	PTFE/silicone/PTFE	8010-0087	
	Pre-slit PTFE/silicone	8010-0078	
	Bonded PTFE/silicone	8010-0077	
	PTFE lined	8010-0080	
	Open top, no septa	8010-0079	
Red	PTFE/silicone	8010-0088	
	PTFE/silicone/PTFE	8010-0089	
	Pre-slit PTFE/silicone	8010-0082	
	Bonded PTFE/silicone	8010-0081	
	Open top, no septa	8010-0083	
Orange	PTFE/silicone	8010-0084	8010-0186
	PTFE/silicone/PTFE	8010-0085	8010-0187
	Pre-slit PTFE/silicone	8010-0075	
	Bonded PTFE/silicone	8010-0074	
	Open top, no septa	8010-0076	



Screw caps for wide opening vials,  
8010-0084

**Septa for Wide Opening (9 mm) Screw Caps**

Septa Type	Color	100/pk	1000/cs
PTFE/red silicone	Ivory	8010-0093	
PTFE/white silicone/red PTFE	Red	8010-0091	8010-0188
Pre-slit PTFE/white silicone	Blue	8010-0094	
PTFE/white silicone	Red	8010-0092	

**2 mL Wide Opening (9 mm) Screw Top Vial Convenience Packs**

Vial Type	Septa Type	Cap Color	100/pk
Clear, write-on spot	PTFE/silicone	Orange	8010-0198
Amber, write-on spot	PTFE/silicone	Orange	8010-0199

Currently using a different manufacturer's vials and closures for your instrument? See the Cross Reference List on pages 63-68 to switch to CrossLab.

**To obtain an optimal fit and seal of any vial and closure, we strongly recommend buying an entire CrossLab vial assembly (including a vial, cap, and septum, as well as a vial insert if needed). Please avoid mixing and matching any CrossLab vials with any other brand of closures, or any CrossLab closures with any other brand of vials.**

## 2 mL Standard Opening (8 mm) Screw Top Vials and Closures



Standard opening screw top vials, 8010-0011

- 2 mL, 12 x 32 mm, 8 mm diameter
- 8-425 thread design
- Optional ceramic write-on spot with fill marks

### 2 mL Standard Opening (8 mm) Screw Top Glass Vials

Description	100/pk
Clear	8010-0011
Clear, write-on spot	8010-0010
Amber	8010-0013
Amber, write-on spot	8010-0012

### 2 mL Standard Opening (8 mm) Screw Top Glass Vial Convenience Packs

Vial Type	Septa Type	Cap Color	100/pk
Clear	PTFE/silicone	Black	8010-0414
Amber	PTFE/silicone	Black	8010-0415



Currently using a different manufacturer's vials and closures for your instrument? See the Cross Reference List on pages 63-68 to switch to CrossLab.

**To obtain an optimal fit and seal of any vial and closure, we strongly recommend buying an entire CrossLab vial assembly (including a vial, cap, and septum, as well as a vial insert if needed). Please avoid mixing and matching any CrossLab vials with any other brand of closures, or any CrossLab closures with any other brand of vials.**

**Screw Caps for Standard Opening (8 mm) Vials**

Color	Septa Type	100/pk
Blue	PTFE/silicone	8010-0061
	Pre-slit PTFE/silicone	8010-0062
	PTFE/silicone/PTFE	8010-0063
	PTFE/butyl	8010-0064
	Open top, no septa	8010-0065
Red	PTFE/silicone	8010-0066
	Pre-slit PTFE/silicone	8010-0067
	PTFE/silicone/PTFE	8010-0068
	PTFE/butyl	8010-0069
	Open top, no septa	8010-0070
Orange	PTFE/silicone	8010-0056
	Pre-slit PTFE/silicone	8010-0057
	PTFE/silicone/PTFE	8010-0058
	PTFE/butyl	8010-0059
	Open top, no septa	8010-0060
Black	PTFE/silicone	8010-0054
	Open top, no septa	8010-0055
<b>Flanged Caps (Compatible with Shimadzu Autosamplers)</b>		
Orange	Flanged, PTFE/silicone	8010-0141
	Flanged, pre-slit PTFE/silicone	8010-0142
	Flanged, no septa	8010-0166

**Septa for Standard Opening (8 mm) Vials**

Septa Type	Unit	Part No.
Red PTFE/white silicone/red PTFE	100/pk	8010-0071
Red PTFE/white silicone	100/pk	8010-0072
PTFE/butyl	500/pk	8010-0073

Currently using a different manufacturer's vials and closures for your instrument? See the Cross Reference List on pages 63-68 to switch to CrossLab.



Screw caps for standard opening vials, 8010-0056

To obtain an optimal fit and seal of any vial and closure, we strongly recommend buying an entire CrossLab vial assembly (including a vial, cap, and septum, as well as a vial insert if needed). Please avoid mixing and matching any CrossLab vials with any other brand of closures, or any CrossLab closures with any other brand of vials.

## 4 mL (13 mm) Screw Top Vials and Closures

- 4 mL, 15 x 45 mm
- Compatible with WISP 48 style autosamplers
- Precision formed screw threads (13 x 425) for consistently secure seal
- Can be used as wash, waste or storage vials

### 4 mL (13 mm) Screw Top Glass Vials

Description	100/pk
Clear	8010-0020
Amber	8010-0021



Screw caps and septa

### Screw Caps for 4 mL (13 mm) Vials

Color	Septa Type	100/pk
Black	Red PTFE/silicone	8010-0095
	Open top, no septa	8010-0096

### Septa for 4 mL (13 mm) Vials

Septa Type	100/pk
Red PTFE/ white silicone	8010-0098
White PTFE	8010-0099

Currently using a different manufacturer's vials and closures for your instrument? See the Cross Reference List on pages 63-68 to switch to CrossLab.

To obtain an optimal fit and seal of any vial and closure, we strongly recommend buying an entire CrossLab vial assembly (including a vial, cap, and septum, as well as a vial insert if needed). Please avoid mixing and matching any CrossLab vials with any other brand of closures, or any CrossLab closures with any other brand of vials.

## 6 mL (16 mm) Screw Top Vials and Closures

**6 mL (16 mm) Screw Top Glass Vials**

Description	100/pk
Clear	8010-0022

**Screw Caps for 6 mL (16 mm) Vials**

Septa Type	100/pk
PTFE/silicone	8010-0101
Pre-slit PTFE/silicone	8010-0102
Open top, no septa	8010-0100

Currently using a different manufacturer's vials and closures for your instrument? See the Cross Reference List on pages 63-68 to switch to CrossLab.



Screw caps for 6 mL (16 mm) vials

**To obtain an optimal fit and seal of any vial and closure, we strongly recommend buying an entire CrossLab vial assembly (including a vial, cap, and septum, as well as a vial insert if needed). Please avoid mixing and matching any CrossLab vials with any other brand of closures, or any CrossLab closures with any other brand of vials.**

## CrossLab Crimp Top Vials and Closures

The wide opening crimp cap provides a larger target area for improved autosampler needle accuracy. Select from a variety of cap colors and septa. Whatever your crimp top vial needs, Agilent has what you are looking for.

### 2 mL (11 mm) Crimp Top Vials and Closures

- 2 mL, 12 x 32 mm
- Available in unique packaging designed to reduce vial breakage
- Tightly controlled crown for improved crimping
- Precision-formed neck for improved autosampler handling
- Rigorous quality assurance provides dimensional accuracy from lot-to-lot
- Optional ceramic write-on spot with fill marks



Crimp top glass vials with write-on spot, 8010-0001

### 2 mL (11 mm) Crimp Top Glass Vials

Description	100/pk	1000/cs
Clear	8010-0002	
Clear, write-on spot	8010-0001	8010-0170
Amber, write-on spot	8010-0003	8010-0172
<b>Crimp Top Vials with Fixed Inserts</b>		
Clear, 300 µL insert volume	8010-0006	
Amber, 300 µL insert volume	8010-0007	

Currently using a different manufacturer's vials and closures for your instrument? See the Cross Reference List on pages 63-68 to switch to CrossLab.

**To obtain an optimal fit and seal of any vial and closure, we strongly recommend buying an entire CrossLab vial assembly (including a vial, cap, and septum, as well as a vial insert if needed). Please avoid mixing and matching any CrossLab vials with any other brand of closures, or any CrossLab closures with any other brand of vials.**

## Crimp Caps with 11 mm Septa

Cap Color	Septa Type	Unit	Part No.
Silver aluminum	PTFE/silicone/PTFE	100/pk	8010-0049
		1000/cs	8010-0182
	PTFE/silicone	100/pk	8010-0050
		1000/cs	8010-0183
	PTFE/butyl	100/pk	8010-0051
	Thin membrane rubber septa	25/pk	8010-0053
	PTFE/red rubber septa	100/pk	8010-0045
		1000/cs	8010-0181
Blue aluminum	PTFE/red rubber septa	100/pk	8010-0046
Green aluminum	PTFE/red rubber septa	100/pk	8010-0047
Red aluminum	PTFE/red rubber septa	100/pk	8010-0048
Gold aluminum	Magnetic	100/pk	8010-0052



Magnetic crimp caps, 8010-0052

## 2 mL (11 mm) Crimp Top Vial Convenience Packs

Vial Type	Septa Type	Cap Color	100/pk
Clear, write-on spot	PTFE/silicone	Silver aluminum	8010-0195
Amber, write-on spot	PTFE/silicone	Silver aluminum	8010-0196

Currently using a different manufacturer's vials and closures for your instrument? See the Cross Reference List on pages 63-68 to switch to CrossLab.



### Tips & Tools

Red rubber septa have a tendency to cause needle sticking during sampling and are more likely to core. Agilent recommends using silicone septa as a higher quality alternative to prevent contamination and issues related to septa coring.

**To obtain an optimal fit and seal of any vial and closure, we strongly recommend buying an entire CrossLab vial assembly (including a vial, cap, and septum, as well as a vial insert if needed). Please avoid mixing and matching any CrossLab vials with any other brand of closures, or any CrossLab closures with any other brand of vials.**



Crimp top micro vial, 0.8 mL, 8010-0153

## Crimp Top Micro Vials

Agilent offers a selection of crimp top micro vials designed for a variety of autosamplers, including HTS and HTC PAL systems, to cope with today's high-throughput LC/MS demands. Additionally, Agilent CrossLab crimp top micro vials work seamlessly with CombiPAL and GC PAL magnetic needle guides and barcode readers.

### Crimp Top Micro Vials

Description	Volume	Unit	Part No.
Amber, flat bottom	0.8 mL	1000/cs	8010-0153
Clear, tapered bottom	0.1 mL	500/pk	8010-0154
Clear, rounded bottom	0.3 mL	500/pk	8010-0155
<b>Micro Caps</b>			
Crimp caps with PTFE/silicone septa, 8 mm		500/pk	8010-0516

Currently using a different manufacturer's vials and closures for your instrument? See the Cross Reference List on pages 63-68 to switch to CrossLab.

For CrossLab CTC Autosampler Syringes, see page 41.

To obtain an optimal fit and seal of any vial and closure, we strongly recommend buying an entire CrossLab vial assembly (including a vial, cap, and septum, as well as a vial insert if needed). Please avoid mixing and matching any CrossLab vials with any other brand of closures, or any CrossLab closures with any other brand of vials.



### Tips & Tools

Agilent offers ergonomic manual crimpers and decappers, designed to significantly reduce hand strain. Electronic versions are also available, featuring a longer life battery designed for quick, powerful use. For more information please visit [www.agilent.com/chem/crimper](http://www.agilent.com/chem/crimper)

## CrossLab Snap Top Vials and Closures

Snap top vials and caps are the simple, efficient way to a secure seal without crimping. It's as easy as push-on, pull-off. Crimp caps can also be used with wide opening snap top vials.

**Note:** Snap cap vials cannot be pressurized.

### 2 mL (11 mm) Snap Top Vials and Closures

- 2 mL, 12 x 32 mm
- Use with any 11 mm snap or crimp cap
- Available in unique packaging designed to reduce vial breakage
- Precision-formed neck improves autosampler handling
- Optional ceramic write-on spot

#### 2 mL (11 mm) Snap Top Glass Vials

Description	100/pk	1000/cs
Clear	8010-0024	
Clear, write-on spot	8010-0023	8010-0177
Amber	8010-0026	
Amber, write-on spot	8010-0025	8010-0178

Currently using a different manufacturer's vials and closures for your instrument? See the Cross Reference List on pages 63-68 to switch to CrossLab.



Snap top vials with write-on spot, 8010-0025

To obtain an optimal fit and seal of any vial and closure, we strongly recommend buying an entire CrossLab vial assembly (including a vial, cap, and septum, as well as a vial insert if needed). Please avoid mixing and matching any CrossLab vials with any other brand of closures, or any CrossLab closures with any other brand of vials.



## Snap Caps with 11 mm Septa

Cap Color	Septa Type	100/pk	1000/cs
Clear	PTFE/red silicone	8010-0104	
	PTFE/silicone/PTFE	8010-0105	
	Pre-slit PTFE/white silicone	8010-0106	
	Clear polyethylene membrane	8010-0107	
Blue	PTFE/red silicone	8010-0108	
	PTFE/white silicone	8010-0112	
Green	PTFE/red silicone	8010-0109	
Orange	PTFE/red silicone	8010-0103	8010-0189
	PTFE/white silicone	8010-0111	8010-0190
	Pre-slit PTFE/white silicone	8010-0113	
Red	PTFE/red silicone	8010-0110	
	Polyurethane	8010-0115	

## 2 mL (11 mm) Snap Top Vial Convenience Packs

Vial Type	Septa Type	Cap Color	100/pk
Clear, write-on spot	PTFE/silicone	Orange	8010-0200
Amber, write-on spot	PTFE/silicone	Orange	8010-0411

## Snap Top Solvent Vial Convenience Packs

### 5 mL Snap Top Solvent Vial Convenience Packs

Vial Type	Septa Type	Cap Color	100/pk
Clear	PTFE/silicone	Clear	8010-0416

To obtain an optimal fit and seal of any vial and closure, we strongly recommend buying an entire CrossLab vial assembly (including a vial, cap, and septum, as well as a vial insert if needed). Please avoid mixing and matching any CrossLab vials with any other brand of closures, or any CrossLab closures with any other brand of vials.

Currently using a different manufacturer's vials and closures for your instrument? See the Cross Reference List on pages 63-68 to switch to CrossLab.

## CrossLab Polypropylene Vials

Wide opening 12 x 32 mm vials are manufactured from virgin polypropylene, meeting the requirements of 21 CFR 177.1520. Polypropylene is chemically resistant and the material of choice for pH sensitive samples, sodium or heavy metals analysis. Polypropylene vials are translucent and can be used with crimp or snap caps.



Polypropylene vials

### Polypropylene Vials

Description	Recommended Fill Volume	Max Fill Volume	100/pk	1000/cs
Polypropylene, crimp/snap top	250 µL	440 µL	8010-0158	8010-0193
Polypropylene, crimp/snap top	0.7 mL	1 mL	8010-0159	
Polypropylene, screw top	250 µL	440 µL	8010-0161	8010-0194
Polypropylene with glass insert, crimp/snap top	250 µL	350 µL	8010-0160	
Polypropylene with glass insert, screw top	250 µL	350 µL	8010-0162	



Polypropylene vial with glass insert, 8010-0160

Currently using a different manufacturer's vials and closures for your instrument? See the Cross Reference List on pages 63-68 to switch to CrossLab.



### Tips & Tools

For economical and effective microsampling, choose the polypropylene vial with molded glass flanged insert. Its polypropylene body has a glass flanged insert molded to the inside, so the sample comes in contact only with the high quality glass insert and the septum.

To obtain an optimal fit and seal of any vial and closure, we strongly recommend buying an entire CrossLab vial assembly (including a vial, cap, and septum, as well as a vial insert if needed). Please avoid mixing and matching any CrossLab vials with any other brand of closures, or any CrossLab closures with any other brand of vials.



Micro-V vial

## CrossLab Micro-V Vials

- Wide opening, 1.5 mL vials with low residual volume
- Made from first hydrolytical glass Type 1
- Standard 12 x 32 mm dimension
- Compatible with 11 mm crimp closures

### Micro-V Vials

Description	Unit	Screw Top	Crimp Top	Snap Top
Clear	100/pk	8010-0018	8010-0004	8010-0027
Amber	100/pk	8010-0019	8010-0005	8010-0028

Currently using a different manufacturer's vials and closures for your instrument? See the Cross Reference List on pages 63-68 to switch to CrossLab.

**To obtain an optimal fit and seal of any vial and closure, we strongly recommend buying an entire CrossLab vial assembly (including a vial, cap, and septum, as well as a vial insert if needed). Please avoid mixing and matching any CrossLab vials with any other brand of closures, or any CrossLab closures with any other brand of vials.**

## CrossLab Microvolume Inserts

To meet your microsampling needs, Agilent has a variety of microvolume inserts with capacities and designs that can transform our vials from full-capacity to limited volume with one simple step.

### Microvolume Inserts for 8 mm Screw Top Vials

Description	Recommended Fill Volume	Max Fill Volume	Unit	Part No.
Glass conical insert with polymer feet	150 µL	200 µL	100/pk	8010-0124
Glass pulled-point insert	150 µL	200 µL	100/pk	8010-0125
Flat bottom insert	200 µL	250 µL	100/pk	8010-0126

### Microvolume Inserts for 11 mm Crimp Top or 9 mm Screw Top Vials

Description	Recommended Fill Volume	Max Fill Volume	Unit	Part No.
Conical insert with polymer feet	250 µL	350 µL	100/pk	8010-0131
Pulled-point insert	250 µL	350 µL	100/pk	8010-0132
Flat bottom insert	400 µL	440 µL	500/pk	8010-0136

Currently using a different manufacturer's vials and closures for your instrument? See the Cross Reference List on pages 63-68 to switch to CrossLab.



Microvolume inserts



250 µL pulled-point glass insert, 8010-0132



400 µL glass flat bottom insert, 8010-0136

To obtain an optimal fit and seal of any vial and closure, we strongly recommend buying an entire CrossLab vial assembly (including a vial, cap, and septum, as well as a vial insert if needed). Please avoid mixing and matching any CrossLab vials with any other brand of closures, or any CrossLab closures with any other brand of vials.

## CrossLab Headspace Vials and Closures

- Choice of crimp or screw top vials
- Bevelled top for maximum secure seal
- Choice of a pressure safety release cap at 45 psi
- Available in flat or rounded bottom designs
- New high performance septa designed for temperatures up to 300°C



Headspace crimp top vials, 8010-0029



Headspace crimp top glass vials, 8010-0033

### Headspace Crimp Top Glass Vials

Description	Unit	Flat Bottom	Rounded Bottom
<b>10 mL Headspace Crimp Top Glass Vials</b>			
Clear	100/pk	8010-0029	8010-0030
	1000/cs	8010-0179	
Amber	100/pk	8010-0031	8010-0032
<b>20 mL Headspace Crimp Top Glass Vials</b>			
Clear	100/pk	8010-0033	8010-0034
	1000/cs	8010-0180	
Amber	100/pk	8010-0035	8010-0036

Currently using a different manufacturer's vials and closures for your instrument? See the Cross Reference List on pages 63-68 to switch to CrossLab.

**To obtain an optimal fit and seal of any vial and closure, we strongly recommend buying an entire CrossLab vial assembly (including a vial, cap, and septum, as well as a vial insert if needed). Please avoid mixing and matching any CrossLab vials with any other brand of closures, or any CrossLab closures with any other brand of vials.**



## Headspace Screw Top Glass Vials

Description	Unit	Flat Bottom	Rounded Bottom
<b>10 mL Headspace Screw Top Glass Vials</b>			
Clear	100/pk	8010-0037	8010-0038
Amber	100/pk	8010-0039	8010-0040
<b>20 mL Headspace Screw Top Glass Vials</b>			
Clear	100/pk	8010-0041	8010-0042
Amber	100/pk	8010-0043	8010-0044

## 22 mL Headspace Crimp Top Glass Vials

Description	Unit	Part No.
Clear	100/pk	8010-0152

Use 20 mm crimp caps with 22 mL headspace vials

## 6 mL Headspace Crimp Top Glass Vials

Description	Unit	Part No.
Clear	100/pk	8010-0151

Use 20 mm crimp caps with 6 mL headspace vials

Currently using a different manufacturer's vials and closures for your instrument? See the Cross Reference List on pages 63-68 to switch to CrossLab.



### Tips & Tools

Many Agilent CrossLab vials are printed with graduation marks and write-on spots. Barcoding labels are also available for regular temperature and high temperature headspace applications.



**To obtain an optimal fit and seal of any vial and closure, we strongly recommend buying an entire CrossLab vial assembly (including a vial, cap, and septum, as well as a vial insert if needed). Please avoid mixing and matching any CrossLab vials with any other brand of closures, or any CrossLab closures with any other brand of vials.**



Headspace aluminum crimp caps with PTFE/silicone septa, 8010-0144

## NEW! High Performance Septa

The first septa that can withstand extreme temperatures and conditions for today's demanding headspace applications.

- Proven to withstand temperatures up to 300 °C with no degradation
- Leak proof
- Available in your choice of crimp or screw
- Compatible with all common headspace solvents including DMSO, DMF, Toluene and Water
- Fits Perkin Elmer and other headspace autosamplers

To obtain an optimal fit and seal of any vial and closure, we strongly recommend buying an entire CrossLab vial assembly (including a vial, cap, and septum, as well as a vial insert if needed). Please avoid mixing and matching any CrossLab vials with any other brand of closures, or any CrossLab closures with any other brand of vials.

## Headspace Caps and Septa

Cap Color	Septa Type	100/pk	1000/cs
<b>20 mm Headspace Crimp Caps and Septa</b>			
Silver aluminum	Tan PTFE/silicone	8010-0116	8010-0191
	Gray PTFE/butyl	8010-0117	
	No septa	8010-0120	
Silver aluminum with safety feature	PTFE/butyl	8010-0143	
	PTFE/silicone	8010-0144	
Silver, magnetic	Tan PTFE/silicone	8010-0165	
Bimetal, magnetic	PTFE/silicone	8010-0420	
Steel	High performance	8010-0429*	
Septa only	Gray PTFE/butyl	8010-0121	
	Tan PTFE/silicone	8010-0122	8010-0192

### 18 mm Headspace Screw Caps and Septa

Silver, magnetic	Tan PTFE/silicone	8010-0119	
	PTFE/silicone	8010-0139**	
	PTFE/butyl	8010-0140	
Steel	High performance	8010-0428*	
Septa only	Blue PTFE/silicone		8010-0418

\*Recommended for high temperature applications up to 300 °C for up to one hour

\*\*This cap is suitable for use in SPME applications

## Headspace Vial Convenience Packs

Vial Type	Septa Type	Cap Color	100/pk
10 mL, crimp top, clear, flat bottom	PTFE/silicone	Silver aluminum	8010-0412
20 mL, crimp top, clear, flat bottom	PTFE/silicone	Silver aluminum	8010-0413
20 mL, screw top, clear, round bottom	PTFE/silicone	Silver magnetic	8010-0417

Currently using a different manufacturer's vials and closures for your instrument? See the Cross Reference List on pages 63-68 to switch to CrossLab.

# CrossLab Vials Cross Reference List

Similar to Bruker/Varian Part No.	Similar to PerkinElmer Part No.	Similar to Shimadzu Part No.	Similar to Thermo Part No.	CrossLab Part No.	Page Number
<b>2 mL Wide Opening (9 mm) Screw Top Glass Vials</b>					
392620514	-	-	60180-507	8010-0008	46
-	-	-	-	8010-0009	46
CPLC40111B CPLC40111R	-	-	60180-509	8010-0014	46
392611653 392611646	N9306201	-	-	8010-0015	46
-	-	-	60180-561	8010-0016	46
392611654	N9306220	-	-	8010-0017	46
392620500	-	-	-	8010-0175	46
-	-	-	-	8010-0176	46
<b>Screw Caps for Wide Opening (9 mm) Vials</b>					
-	-	-	-	8010-0074	47
-	-	-	-	8010-0075	47
-	-	-	-	8010-0076	47
-	-	-	-	8010-0077	47
-	-	-	-	8010-0078	47
-	-	-	-	8010-0079	47
-	-	-	-	8010-0080	47
-	-	-	-	8010-0081	47
-	-	-	-	8010-0082	47
-	-	-	-	8010-0083	47
392611659	-	-	-	8010-0084	47
-	-	-	-	8010-0085	47
392611659	N9306202	228-45454-91	60180-516	8010-0086	47
-	-	-	-	8010-0087	47
392611659	-	-	-	8010-0088	47
-	-	-	-	8010-0089	47
392620506	-	-	-	8010-0186	47
-	-	-	-	8010-0187	47
<b>Septa for Wide Opening (9 mm) Screw Caps</b>					
-	-	-	-	8010-0091	47
392620510 190010209	-	-	-	8010-0092	47
392620510 190010209	-	-	-	8010-0093	47
-	-	-	-	8010-0094	47
-	-	-	-	8010-0188	47

(Continued)

The cross references to the original equipment manufacturer (OEM) part numbers listed here serve as a recommendation that the CrossLab products are viable alternatives to OEM products. CrossLab products are compatible with the corresponding OEM instruments, although in some cases, the CrossLab products may have slightly different designs as compared to the OEM counterparts.



**To obtain an optimal fit and seal of any vial and closure, we strongly recommend buying an entire CrossLab vial assembly (including a vial, cap, and septum, as well as a vial insert if needed). Please avoid mixing and matching any CrossLab vials with any other brand of closures, or any CrossLab closures with any other brand of vials.**

# CrossLab Vials Cross Reference List

Similar to Bruker/Varian Part No.	Similar to PerkinElmer Part No.	Similar to Shimadzu Part No.	Similar to Thermo Part No.	CrossLab Part No.	Page Number
<b>2 mL Wide Opening (9 mm) Screw Top Vial Convenience Packs</b>					
392611549	N9300700	228-45450-91	60180-599	8010-0198	47
392611550	-	228-45452-91	-	8010-0199	47
<b>2 mL Standard Opening (8 mm) Screw Top Glass Vials</b>					
-	-	-	60180-508	8010-0010	48
392611639	-	038-00165-06	-	8010-0011	48
392620550					
CP10271					
-	-	-	60180-560	8010-0012	48
392611640*	-	-	-	8010-0013	48
<b>2 mL Standard Opening (8 mm) Screw Top Glass Vial Convenience Packs</b>					
392611530	-	-	-	8010-0414	48
392611987					
394983500					
394983501					
392611531				8010-0415	48
<b>Screw Caps for Standard Opening (8 mm) Vials</b>					
-	N9306052	221-34271-92	-	8010-0054	49
-	N9303441	220-90384-00	60180-514	8010-0055	49
392611641	-	221-34271-92	-	8010-0056	49
-	-	-	-	8010-0057	49
-	-	-	-	8010-0058	49
392611645	-	-	-	8010-0059	49
-	-	-	60180-514	8010-0060	49
392611641	-	-	60180-515	8010-0061	49
-	-	-	-	8010-0062	49
-	-	-	-	8010-0063	49
392611645	-	-	-	8010-0064	49
-	-	-	60180-514	8010-0065	49
392611641	-	-	60180-562	8010-0066	49
-	-	-	-	8010-0067	49
-	-	-	-	8010-0068	49
392611645	-	-	-	8010-0069	49
1600069800	-	-	60180-514	8010-0070	49
-	-	-	-	8010-0141	49
392611613	-	-	-	8010-0142	49
-	-	-	C4013-98Y	8010-0166	49
<b>Septa for Standard Opening (8 mm) Vials</b>					
-	-	-	-	8010-0071	49
6900016900	-	221-34271-92	-	8010-0072	49
390614901					
R005486RT1					
-	N9303442	-	-	8010-0073	49

(Continued)

To obtain an optimal fit and seal of any vial and closure, we strongly recommend buying an entire CrossLab vial assembly (including a vial, cap, and septum, as well as a vial insert if needed). Please avoid mixing and matching any CrossLab vials with any other brand of closures, or any CrossLab closures with any other brand of vials.

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# CrossLab Vials Cross Reference List

Similar to Bruker/Varian Part No.	Similar to PerkinElmer Part No.	Similar to Shimadzu Part No.	Similar to Thermo Part No.	CrossLab Part No.	Page Number
<b>4 mL (13 mm) Screw Top Glass Vials</b>					
CP10277	N9306247	220-90393-00	60180-510	8010-0020	50
-	-	-	-	8010-0021	50
<b>Screw Caps for 4 mL (13 mm) Vials</b>					
-	-	220-91521-14	-	8010-0095	50
-	-	220-90394-00	-	8010-0096	50
<b>Septa for 4 mL (13 mm) Vials</b>					
-	-	228-21290-91	-	8010-0098	50
-	-	-	-	8010-0099	50
<b>6 mL (16 mm) Screw Top Glass Vials</b>					
-	-	-	-	8010-0022	51
<b>Screw Caps for 6 mL (16 mm) Vials</b>					
-	-	-	-	8010-0100	51
-	-	-	-	8010-0101	51
-	-	-	-	8010-0102	51
<b>2 mL (11 mm) Crimp Top Glass Vials</b>					
-	-	-	60180-502	8010-0001	52
392611634*	N9301385	-	-	8010-0002	52
390886500**	-	-	-	-	-
-	N9302680	-	-	8010-0003	52
-	-	-	-	8010-0006	52
-	-	-	-	8010-0007	52
392620517	-	-	-	8010-0170	52
CPLCL07CPVA	-	-	-	8010-0172	52
<b>Crimp Caps with 11 mm Septa</b>					
-	-	-	-	8010-0045	53
-	N9302686	-	60180-526	8010-0046	53
-	N9302684	-	-	8010-0047	53
-	N9302685	-	-	8010-0048	53
-	N9306229	-	-	8010-0049	53
392611631	N9306228	-	-	8010-0050	53
392611632	N9306015	-	-	8010-0051	53
-	-	-	-	8010-0052	53
-	-	-	-	8010-0053	53
-	-	-	-	8010-0181	53
-	-	-	-	8010-0182	53
CPLCL11ACBST144	-	-	-	8010-0183	53

\* 100/pk  
\*\* 144/pk

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# CrossLab Vials Cross Reference List

Similar to Bruker/Varian Part No.	Similar to PerkinElmer Part No.	Similar to Shimadzu Part No.	Similar to Thermo Part No.	CrossLab Part No.	Page Number
<b>2 mL (11 mm) Crimp Top Vial Convenience Packs</b>					
392611525	N9300500	-	60180-597	8010-0195	53
-	-	-	-	8010-0196	53
<b>Crimp Top Micro Vials</b>					
-	-	-	-	8010-0153	54
-	-	-	-	8010-0154	54
CP959485	-	-	-	8010-0155	54
<b>2 mL (11 mm) Snap Top Glass Vials</b>					
-	N9306207	-	-	8010-0023	55
-	N9303418	-	-	8010-0024	55
-	N9306208	-	-	8010-0025	55
-	-	-	-	8010-0026	55
-	-	-	-	8010-0177	55
-	-	-	-	8010-0178	55
<b>Snap Caps with 11 mm Septa</b>					
-	-	-	-	8010-0103	56
-	N9303419	-	-	8010-0104	56
-	N9303417	-	-	8010-0105	56
-	N9303416	-	-	8010-0106	56
-	-	-	-	8010-0107	56
392611871	-	-	-	8010-0108	56
-	-	-	-	8010-0109	56
-	-	-	-	8010-0110	56
-	N9303419	-	-	8010-0111	56
-	N9303417	-	60180-713	8010-0112	56
-	N9303416	-	-	8010-0113	56
-	-	-	-	8010-0115	56
-	-	-	-	8010-0189	56
-	-	-	-	8010-0190	56
<b>2 mL (11 mm) Snap Top Vial Convenience Packs</b>					
-	-	-	-	8010-0200	56
-	-	-	-	8010-0411	56
<b>5 mL Snap Top Solvent Vial Convenience Packs</b>					
392611970	-	-	-	8010-0416	56
392611974	-	-	-	-	-
392611975	-	-	-	-	-
392611980	-	-	-	-	-

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# CrossLab Vials Cross Reference List

Similar to Bruker/Varian Part No.	Similar to PerkinElmer Part No.	Similar to Shimadzu Part No.	Similar to Thermo Part No.	CrossLab Part No.	Page Number
<b>Polypropylene Vials</b>					
-	-	-	-	8010-0158	57
392611667	-	-	-	8010-0159	57
R000548SCY	-	-	-	8010-0160	57
-	-	-	-	8010-0161	57
-	-	-	-	8010-0162	57
-	-	-	-	8010-0193	57
-	-	-	-	8010-0194	57
<b>Micro-V Vials</b>					
-	-	-	-	8010-0004	58
-	-	-	-	8010-0005	58
-	-	-	-	8010-0018	58
-	-	-	-	8010-0019	58
-	-	-	-	8010-0027	58
-	-	-	-	8010-0028	58
<b>Microvolume Inserts for 8 mm Screw Top Vials</b>					
-	-	-	-	8010-0124	59
392611593	-	-	-	8010-0125	59
-	-	-	-	8010-0126	59
<b>Microvolume Inserts for 11 mm Crimp Top or 9 mm Screw Top Vials</b>					
392611594	-	-	-	8010-0131	59
190010204	-	-	-	-	-
392620538	-	-	-	-	-
392611596	-	-	-	8010-0132	59
392611636	-	-	-	-	-
-	-	-	-	8010-0136	59
<b>Headspace Crimp Top Glass Vials</b>					
CP10204	-	-	-	8010-0029	60
MLA21000	N6356478	-	60180-504	8010-0030	60
-	-	-	-	8010-0031	60
392620526	-	-	60180-505	8010-0032	60
CP10205	-	-	-	8010-0033	60
392611675	N9306079	-	60180-506	8010-0034	60
392612021	-	-	-	-	-
MLA202100	-	-	-	-	-
-	-	-	-	8010-0035	60
392620528	-	-	-	8010-0036	60
-	-	-	-	8010-0179	60
-	-	-	-	8010-0180	60

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# CrossLab Vials Cross Reference List

Similar to Bruker/Varian Part No.	Similar to PerkinElmer Part No.	Similar to Shimadzu Part No.	Similar to Thermo Part No.	CrossLab Part No.	Page Number
<b>Headspace Screw Top Glass Vials</b>					
-	-	-	-	8010-0037	61
CP741315 CP913323	N6356479	220-94796-07	-	8010-0038	61
-	-	-	-	8010-0039	61
392620104	-	-	-	8010-0040	61
-	-	-	-	8010-0041	61
392620202	N9306075	220-94796-01	-	8010-0042	61
-	-	-	-	8010-0043	61
392620204	-	-	-	8010-0044	61
<b>22 mL Headspace Crimp Top Glass Vials</b>					
MLA110040M	N9306240	-	-	8010-0152	61
<b>6 mL Headspace Crimp Top Glass Vials</b>					
392611857	-	-	-	8010-0151	61
<b>Headspace Caps and Septa</b>					
392611858 392610003 ROK7382420	-	-	60180-511	8010-0116	62
-	-	-	60180-513	8010-0117	62
-	N9306077	220-94796-02	-	8010-0119	62
-	-	-	-	8010-0120	62
392611859	B4000025	-	-	8010-0121	62
-	B4000022	-	60180-521 60180-522	8010-0122	62
392620302 392620304	-	-	-	8010-0139	62
392620306	-	-	-	8010-0140	62
392611607	B0104239	-	-	8010-0143	62
-	B0104241	-	-	8010-0144	62
MLA200051ML 392612017 392611860	-	-	-	8010-0165	62
-	-	-	-	8010-0191	62
-	-	-	-	8010-0192	62
CP912446 CP913077	-	-	-	8010-0418	62
CP959464	-	-	-	8010-0420	62
-	-	-	-	8010-0428	62
-	-	-	-	8010-0429	62
<b>Headspace Vial Convenience Packs</b>					
392611613	-	220-94562-00	-	8010-0412	62
392611607	N9303992	220-94563-00	-	8010-0413	62
392620401 392620403	-	-	-	8010-0417	62

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