

Sample Vials

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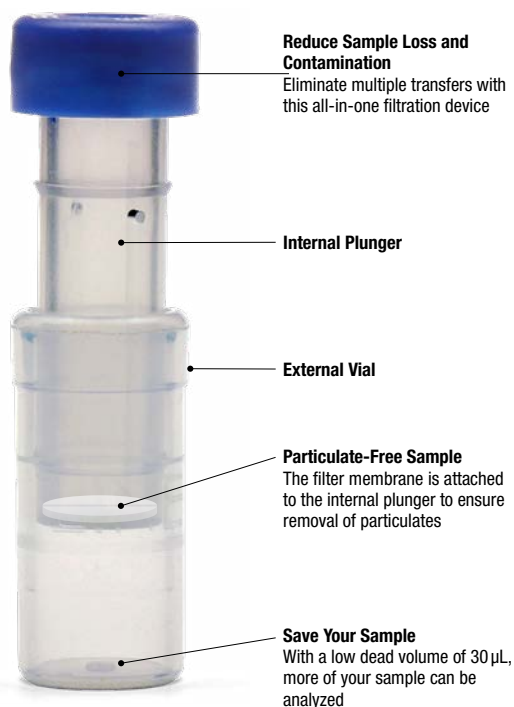
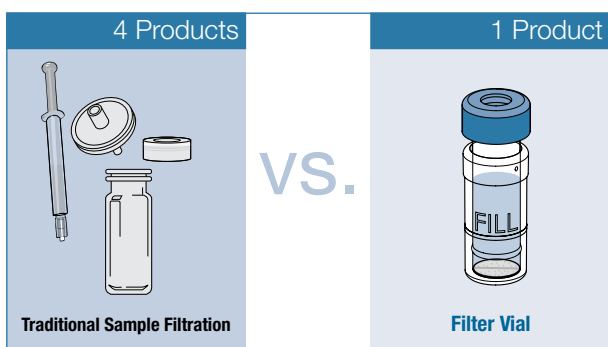
“ I am **very pleased** to do business with Phenomenex. . . . for me you are a kind of benchmark for other companies. ”

Jos Mecklenfeld
QPS, Netherlands

The opinions stated herein are solely those of the speaker and not necessarily those of any company or organization.

Filter Vial Products

Verex Filter Vials are designed to offer quick and efficient sample preparation by incorporating a syringe, filtration membrane, vial, and cap/septa all into one product. Each filter vial is comprised of two parts: the external vial to be filled with sample and an internal plunger equipped with a filtration membrane and cap that includes a pre-slit PTFE/Silicone septa. Simply, dispense your sample into the external vial and compress the internal plunger to filter. This produces a particulate-free sample ready for analysis. Verex Filter Vials are a standard 12 x 32 mm vial and can be easily loaded into an autosampler.



Verex Filter Vials Offer:

- Simplified workflow
- Less system downtime
- Reduced lab waste
- Broad chemical compatibility



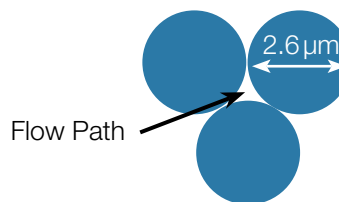
Filter Vial Selection Guide

1.

Choose a pore size based on chromatographic media and flow path

For HPLC/UHPLC columns packed with $\leq 3 \mu\text{m}$ chromatographic media, a Verex Filter Vial with $0.20 \mu\text{m}$ filter membrane is recommended. Filter membranes with a $0.20 \mu\text{m}$ pore size provides an effective barrier against unwanted particulates entering the system flow path. This reduces column plugging, leading to longer column lifetimes and increased system up-time. For HPLC columns with $> 3 \mu\text{m}$ chromatographic media, a Verex Filter Vial with $0.45 \mu\text{m}$ filter membrane is recommended.

Particle Size (μm)	Flow Path (μm)	Effective Filter Pore Size (μm)
5	0.72	0.45
3	0.43	0.20
2.6	0.38	0.20
1.7	0.25	0.20

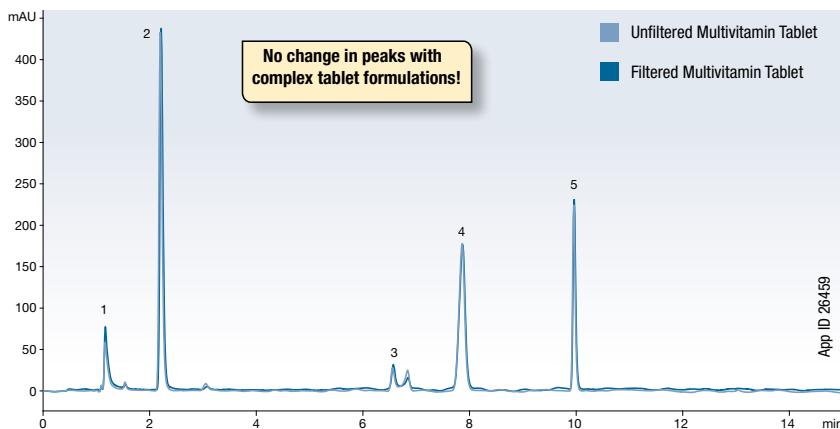


2.

Choose a filter membrane according to the characteristics of your sample and filtering objective

Membrane Type	Recommended Uses
RC (Regenerated Cellulose)	Hydrophilic Regenerated Cellulose filter membranes exhibit fast-flow and ultra-low protein and non-specific binding characteristics and are compatible with a broad range of aqueous and mixed-organic solutions. This membrane is broadly recommended as an excellent general purpose/high-performance samples' filter for most applications.
PTFE (Polytetrafluoroethylene)	Polytetrafluoroethylene is an inherently hydrophobic membrane excellent for filtration of organic-based, highly acidic or basic samples and solvents. Widely used in chromatography, it is especially well suited for the clarification of non-aqueous and organic samples.
NY (Nylon)	Nylon has inherent hydrophilic characteristics and works well for filtration and clarification of many aqueous and mixed-organic solvent solutions.
PES (Polyethersulfone)	Polyethersulfone membranes exhibit very fast-flow and ultra-low protein binding characteristics and ensures removal of particulate matter. This membrane is ideally suited for use in many biological studies and is broadly recommended for filtering critical biological samples, tissue culture media, additives and buffers.
PVDF (Polyvinylidene Fluoride)	Hydrophilic Polyvinylidene Fluoride filter membranes provide high flow rates and throughput, low extractables, and broad chemical compatibility. This membrane binds less protein than nylon or PTFE membranes and is typically used in clarification of biological samples or dissolution testing.

Multivitamin Tablet Analysis by HPLC-UV



Sample Preparation

Make: 1 mg/mL concentrations of each sample with water from the tablet matrix. For Riboflavin, add 1-2 drops of Ammonium Hydroxide to help dissolve

Mix: 50 μ L of each sample into a mastermix

Load: 250 μ L of mastermix into **Verex Filter Vial 0.45 μ m, NY (AR0-F207-12)**

Inject: 3 μ L final eluate onto HPLC-UV

LC-UV Conditions

Column: Synergi™ 4 μ m Hydro-RP

Dimensions: 150 x 4.6 mm

Part No.: 00F-4375-E0

Mobile Phase: A: 20 mM Potassium phosphate + 0.1 % Hexane sulfonate, pH 3.0
B: Acetonitrile

Gradient:	Time (min)	% B
	0	3
	3	3
	18	50
	18.1	3
	20	3

Flow Rate: 1.5 mL/min

Injection Volume: 3 μ L

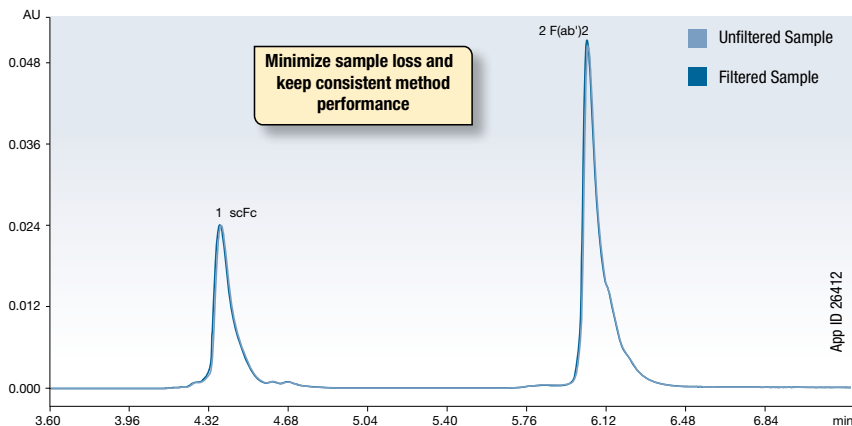
Temperature: 30 °C

Instrument: Agilent® 1100 HPLC with Quaternary Pump

Detection: UV @ 210 nm

Sample: 1. Thiamine
2. Pyridoxine
3. Pantothenic Acid
4. P-Aminobenzoic Acid
5. Riboflavin

Monoclonal Antibody (mAbs) Fragments



Sample Preparation

Reconstitute: FabRICATOR® Z in 50 μ L ddH₂O to a concentration of 40 units/ μ L

Add: 1 unit FabRICATOR Z / 1 μ g IgG. Final Concentration should be 0.5-10 mg/mL

Digest: Incubate mixture for 16 hrs at 37 °C

Load: Sample into **Verex Filter Vial 0.45 μ m, PES (AR0-F208-12)**

Inject: 2 μ L final eluate onto HPLC-UV

LC-UV Conditions

Column: Biozen™ 2.6 μ m WidePore C4

Dimensions: 100 x 2.1 mm

Part No.: 00D-4786-AN

Mobile Phase: A: 0.1 % TFA in Water
B: 0.1 % TFA in Acetonitrile

Gradient:	Time (min)	% B
	0	25
	10	45
	11	80
	13	80
	13.1	25
	17.1	25

Flow Rate: 0.8 mL/min

Injection Volume: 2 μ L

Detector: UV-Vis @ 280 nm

Sample: Trastuzumab, IdeZ Digested

- Diverse color options make identification and reorder simple and easy!



Ordering Information

Description	Membrane Pore	Part No.	Unit
Verex Filter Vial-RC (Regenerated Cellulose)	0.20 μ m	AR0-F103-12	100/pk
	0.45 μ m	AR0-F203-12	100/pk
Verex Filter Vial-PTFE (Polytetrafluoroethylene)	0.20 μ m	AR0-F102-12	100/pk
	0.45 μ m	AR0-F202-12	100/pk
Verex Filter Vial-NY (Nylon)	0.20 μ m	AR0-F107-12	100/pk
	0.45 μ m	AR0-F207-12	100/pk
Verex Filter Vial-PES (Polyethersulfone)	0.20 μ m	AR0-F108-12	100/pk
	0.45 μ m	AR0-F208-12	100/pk
Verex Filter Vial-PVDF (Polyvinylidene Fluoride)	0.20 μ m	AR0-F106-12	100/pk
	0.45 μ m	AR0-F206-12	100/pk

Vials for UHPLC/HPLC/GC/SFC and MS Analysis

Leading in Quality, Delivery, and Support

The most critical point of your analysis is when you put your sample in the vial. Verex certified sample vials, inserts, caps and seals are guaranteed to ensure problem-free, reproducible performance with consistent results you can trust.

All Vials, Caps, and Kits

- **Advanced manufacturing**
- **Multi-step QA/QC**
- **Cleanroom packaged**
- **Certified**

With the demand for better product reproducibility and performance in glass, septa and caps, we developed Verex HPLC / GC vial products with high quality materials to exceed industry specifications and tolerances. Verex innovative precision products provide air-tight, leak-free seals to safely transfer and store your most important samples. Through extensive testing, we've created guaranteed-fit vial products that offer compatibility with virtually any autosampler for trouble-free operation.

With tightly controlled 100% traceable manufacturing processes, we re-defined the standards for lot traceability and certification of every Verex product to ensure a uniform product with optimum performance for any application. For those with the most sensitive applications, choose Verex-Certified PLUS or Certified MSQ products for excellent ultra-grade cleanliness. Bottom line, Verex is your sample transfer and storage solution.

Vials and inserts are made of inert, high-purity, chemically-stable borosilicate glass to exacting specifications, individually heat-treated to burn off any impurities, then packaged in a cleanroom environment. Choose from crimp, snap, and screw types or mix and match vials and caps to your application. Most vials are offered with or without a write-on marking spot or "patch". For easy selection or purchase convenience, our assembled vial kits are ready to go!

Verex caps / seals / closures are made to exacting specifications, giving a tight seal each and every time. The aluminum crimp seals, plastic screw and snap caps come with highly pure septa material and are available in pre-slit and non-slit formats. Economical press-fit and specially formulated bonded-in septa styles are both available. And our mass spec certified (MSQ) screw caps provide you with a state-of-the art solution for your most challenging, sensitive applications.

A variety of complete vial kits are available to meet the most demanding needs of chromatographers, from routine analytical to high-sensitivity work:

- **33-Expansion clear glass (USP Type 1 borosilicate, Class A), 51A amber glass**
- **Limited volume (high sample recovery) vials**
- **Silanized (deactivated) glass**
- **Polypropylene for biocompatibility**
- **Certified and special MS-certified (caps and vials)**

AUTOSAMPLER VIALS | VIALS - SAMPLE HANDLING

Three Levels

	LEVEL 1 Certified	LEVEL 2 Certified PLUS (Cert+)	LEVEL 3 Certified MSQ (Cert + MSQ) (Mass Spec Quality)
Ultra Clean Specially designed and treated for mass spectrometry (MS) applications.			✓
Low Bleed Special cap / closure processing, treating, and testing for low bleed of residual organics. For high sensitivity GC-MS and LC-MS applications.		✓	✓
Dimensionally Verified Machine vision cameras and gauges inspect critical dimensions and tolerances to produce uniform, defect-free products.	✓	✓	✓
Lot Traceable Vial and cap packs are 100% traceable through the manufacturing process. Certificate of Conformance available by lot number upon request.	✓	✓	✓
Clean Room Packaged Ensures particulate- and contaminate-free products for clean chromatography.	✓	✓	✓
Part Number Extension	No Extension	Certificate of Conformance Included; Extension -C	Certificate of Conformance Included; Extension -M
Part Number Example	ARO-8952-13	ARO-8952-13-C	ARO-8952-13-M

Need help matching your current vials and caps to Verex? Visit: www.phenomenex.com/VialFinder



Vials for UHPLC/HPLC/GC/SFC and MS Analysis (cont'd)

All Verex products are fully lot-tested and certified. The details of product specifications and testing are available at www.phenomenex.com/verex. The "Certified PLUS" rating signifies the highest quality available from Phenomenex. A Certificate of Conformance is included. Depending on the product, Certified PLUS may indicate, for example, special processing or treating and/or testing for low bleed or residual organics. Certified products offer excellent performance, especially for high sensitivity, mass spectrometry applications.



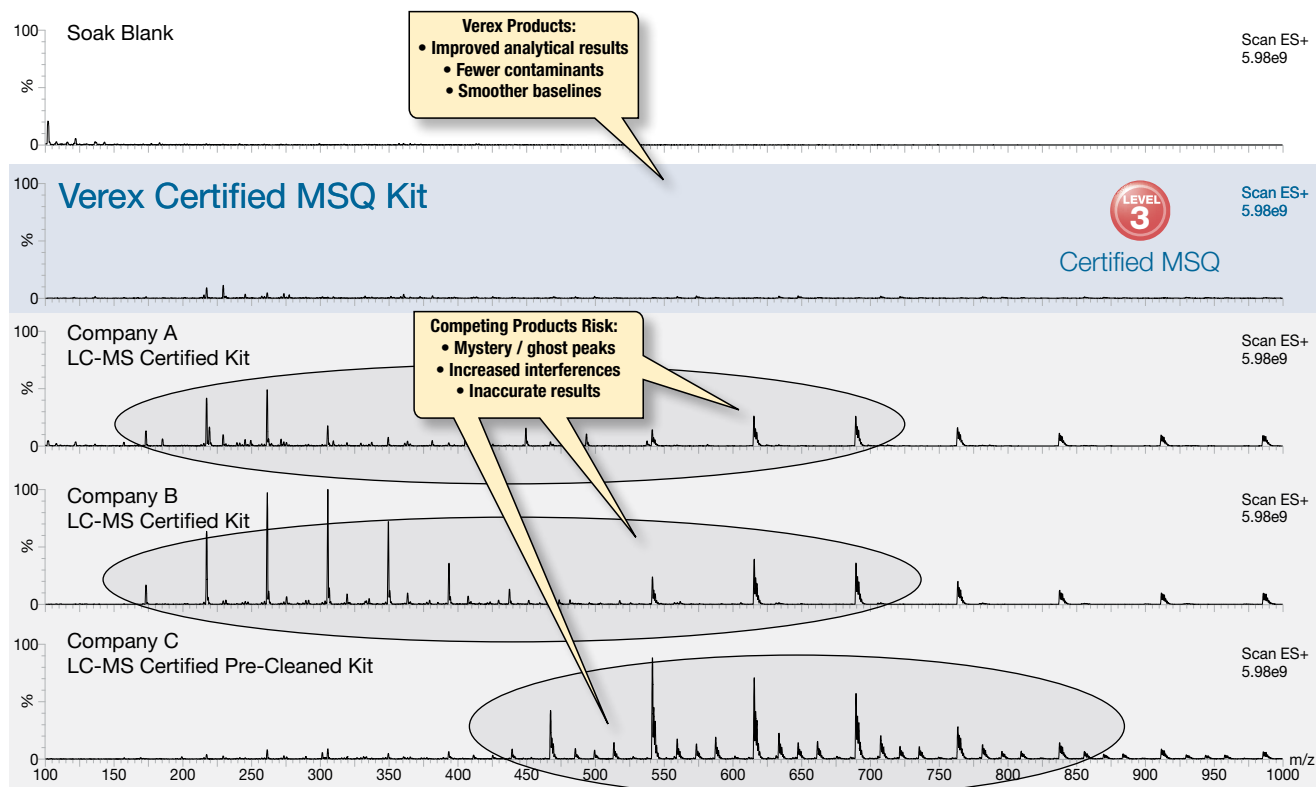
From the manufacturing of our products to their timely delivery and superior customer support, we are dedicated to continually improving our processes to consistently meet or exceed your expectations.



Vials, The Most Critical Part of Your Analysis!


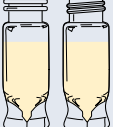
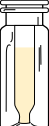
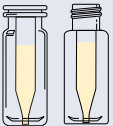
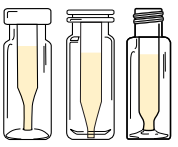
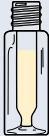

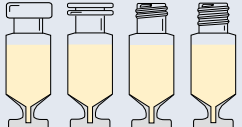
Though they may look alike, not all vials offer equivalent performance. Variations in product quality can adversely affect your chromatography, leading to mystery peaks, loss of analytes, and

irreproducible results. Begin every analysis with high quality Verex products to minimize troubleshooting delays, and costly, unnecessary rework.



Comparative separations may not be representative of all applications.

12 x 32mm Limited Volume Specialty Vials and Kits

	Type and Description	Finish	Material	Total Volume	Residual Volume	Available as	Page Number	Part Numbers
	High-Recovery CD Vial Center-draining	9 mm Screw Thread	Glass	1.5 mL	< 20 µL	Convenience Kits (certified and regular)	37 37 36 36	ARO-9981-13 ARO-9982-13 ARO-9985-13-C ARO-9986-13-C
	Max-Recovery CD Vial Center-draining	11 mm Snap or 9 mm Screw Thread	Glass	1.5 mL	< 2 µL	Vials (regular) Convenience Kits (certified)	34 36 36	ARO-3680-12 ARO-9987-13-C ARO-9988-13-C
	Insert Vial µVial i2V	11 mm Snap	Glass	500 µL	< 2 µL	Vials (regular)	34 34	ARO-3630-13 ARO-3631-13
	Insert Vial µVial i3 (Qsert)	11 mm Snap or 9 mm Screw Thread	Glass	300 µL	< 4 µL	Convenience Kits (certified and regular)	34 34 37 37 36	ARO-9671-13 ARO-9672-13 ARO-9973-13 ARO-9974-13 ARO-9974-13-C
	Insert Vial µVial i3 (Qsert)	11 mm Crimp or 11 mm Snap or 9 mm Screw Thread	Glass	300 µL or 475 µL	< 4 µL	Vials (regular)	34 33 33 37 37	ARO-3625-13 ARO-3725-13 ARO-3726-13 ARO-3920-13 ARO-3921-13
	Insert Vial µVial i3 (Qsert)	10 mm Screw Thread	Glass	450 µL	< 2 µL	Vials (regular)	40 40	ARO-3020-13 ARO-3021-13
	Plastic Vial	9 mm Screw Thread	Polypropylene	1.7 mL 700 µL 300 µL	< 2 µL	Vials (certified and regular)	37	ARO-39P0-13 ARO-39P1-13 ARO-39P2-13
	Micro Vial with Tapered Base v-Vial	11 mm Crimp or 11 mm Snap or 9 mm Screw Thread or 10 mm Screw Thread	Glass	1.5 mL	< 4 µL	Vials (regular)	40 34 34 33 33 37 37	ARO-3040-13 ARO-3640-13 ARO-3641-12 * ARO-3740-13 ARO-3741-13 ARO-3940-13 ARO-3941-13

*Only available in 100/pk

AUTOSAMPLER VIALS | VIALS - SAMPLE HANDLING



9-425 neck finish represents a vial with a diameter of 9 mm across the outside of the threads and a thread style of 425.

12 x 32 mm, 11 mm Crimp-Top Vial Products

Crimp-Top Vials, 2.0 mL

- Cleaner vials eliminate ghost peaks and contaminants
- Used with most autosamplers, including Agilent®, Thermo Scientific®, Waters®
- Larger-opening “wide-mouth” style prevents broken needles and system downtime
- Precision neck improves crimping

Ordering Information

Description	1000/pk
Standard Opening	
Vial, Crimp, 2 mL Clear, No Patch	ARO-3700-13
Vial, Crimp, 2 mL Clear, w/ Patch	ARO-3710-13
Vial, Crimp, 2 mL Amber, w/ Patch	ARO-3711-13
Wide Mouth Opening	
Vial, Crimp, 2 mL Wide Mouth, Clear, No Patch	ARO-37K0-13
Vial, Crimp, 2 mL Wide Mouth, Clear, w/ Patch	ARO-37L0-13
Vial, Crimp, 2 mL Wide Mouth, Amber, No Patch	ARO-37K1-13
Vial, Crimp, 2 mL Wide Mouth, Amber, w/ Patch	ARO-37L1-13



Download FREE
Verex vials and caps poster guide at:
www.phenomenex.com/verex

Limited Volume Specialty Crimp-Top Vials

- Microsampling (center-draining and fused-insert vials)

Ordering Information

Description	100/pk	1000/pk
Vial, Crimp, v-Vial Clear, No Patch*	ARO-3740-12	ARO-3740-13
Vial, Crimp, v-Vial Amber, No Patch*	—	ARO-3741-13
Vial, Crimp, µVial i3 (Qsert), Clear, w/ Patch	ARO-3725-12	ARO-3725-13
Vial, Crimp, µVial i3 (Qsert), Amber, w/ Patch	ARO-3726-12	ARO-3726-13

*51-Expansion glass.



Seals / Closures for Crimp-Top Vials

- Excellent for volatile samples
- Extra clean to eliminate contamination
- Colored aluminum

Ordering Information

Description	1000/pk
Seal, 11 mm Diameter, Crimp, PTFE/Silicone, silver	ARO-5780-13
Seal, 11 mm Diameter, Crimp, PTFE/Silicone/PTFE, silver	ARO-5760-13
Seal, 11 mm Diameter, Crimp, PTFE/Rubber, silver	ARO-5740-13
Seal, 11 mm Diameter, Crimp, PTFE/Rubber, blue	ARO-5742-13
Seal, 11 mm Diameter, Crimp, PTFE/Rubber, red	ARO-5741-13
Seal, 11 mm Diameter, Crimp, PTFE/Rubber, green	ARO-5743-13
Seal, 11 mm Diameter, Crimp, PTFE/Rubber, gold	ARO-5746-13
Seal, 11 mm Diameter, Crimp, PTFE, silver	ARO-5710-13



Save Money. Bulk discounts available. Timely delivery. Excellent support.



Request a Quote. Want to make sure you're getting the best pricing on vials? Visit: www.phenomenex.com/Verex



For Vial Inserts for Standard Opening Crimp-Top Vials, use 5 mm Diameter Inserts, see p. 39
For Vial Inserts for Wide Mouth Crimp-Top Vials, use 6 mm Diameter Inserts, see p. 38

12 x 32 mm, 11 mm Snap-Top Vials and Kits

Convenience Kits – Snap-Top Vials and Seals / Closures

- Precision formed for autosampler fit
- Larger-opening “wide-mouth” style prevents broken needles and system downtime
- Rigorous quality testing for consistent performance
- Precise vial depth provides consistent sample recoveries

Ordering Information†

Description	1000/pk
Vial Kit, Snap Cap, 2 mL Clear, w/ Patch + PTFE/Silicone	ARO-9721-13
Vial Kit, Snap Cap, 2 mL Clear + PTFE/Silicone, preSlit	ARO-9727-13

†No write-on patch unless otherwise indicated



Convenience Kits – Limited Volume Specialty Snap-Top Vials and Seals / Closures

- Microsampling (fused-insert vials)
- Cleaner vials eliminate ghost peaks and contaminants

Ordering Information

Description	100/pk	1000/pk
Vial Kit, Snap, µVial i3 (Qsert), Clear w/ Patch + PTFE/Silicone	ARO-9671-12	ARO-9671-13
Vial Kit, Snap, µVial i3 (Qsert), Clear w/ Patch + PTFE/Silicone, preSlit	ARO-9672-12	ARO-9672-13



Snap-Top Vials*, 2.0 mL

- Great for less volatile samples or high-throughput labs
- Save time, without crimping or twisting

Ordering Information

Description	1000/pk
Vial, Snap, 2 mL Clear, No Patch	ARO-3600-13
Vial, Snap, 2 mL Clear, w/ Patch	ARO-3610-13
Vial, Snap, 2 mL Amber, w/ Patch	ARO-3611-13
Vial, Snap, 2 mL Clear, w/ Patch, Silanized	ARO-3613-13
Vial, Snap, 2 mL Amber, w/ Patch, Silanized	ARO-3614-13

*Vials can accept either snap or crimp-tops to effectively seal the vial.



Limited Volume Specialty Snap-Top Vials

- For small volume microsamples (center-draining and fused-insert vials)
- One piece vial with fused-insert

Ordering Information

Description	100/pk	1000/pk
Vial, Snap, v-Vial i2V Clear, No Patch®	ARO-3640-12	ARO-3640-13
Vial, Snap, v-Vial i2V Amber, No Patch®	ARO-3641-12	—
Vial, Snap, µVial i2V Clear, No Patch	ARO-3630-12	ARO-3630-13
Vial, Snap, µVial i2V Amber, No Patch	ARO-3631-12	ARO-3631-13
Vial, Snap, µVial i3 (Qsert), Clear, w/ Patch	ARO-3625-12	ARO-3625-13
Vial, Snap, Maximum Recovery (CD), Clear, No Patch	ARO-3680-12	ARO-3680-13

®51-Expansion glass.



AUTOSAMPLER VIALS | VIALS - SAMPLE HANDLING



Simply choose the vial closure convenience kit for your application and you'll also receive a free dispenser box!



For Vial Inserts for Snap-Top Vials, use 6 mm Diameter Inserts, see p. 38

12 x 32 mm, 11 mm Snap-Top Vials and Kits (cont'd)

Seals / Closures for Snap-Top Vials

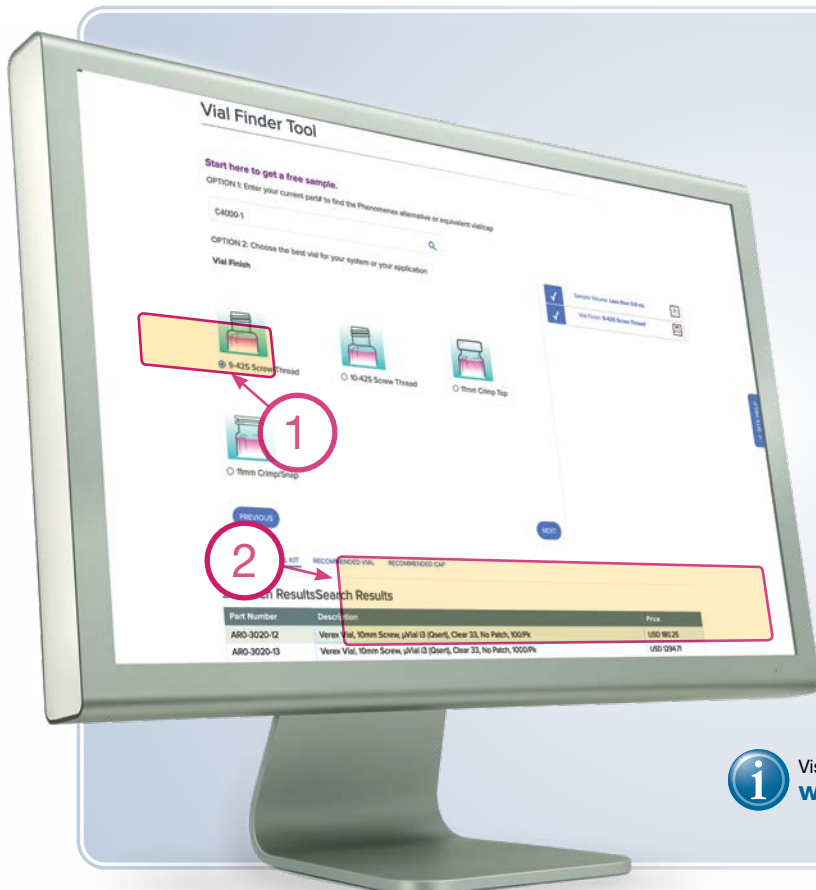
- Specially designed for secure fit
- Easily snap cap onto vial and pull cap off

Ordering Information

Description	1000/pk
No-Slit	
Seal, 11 mm Diameter, Snap, PTFE/Silicone, blue	ARO-5652-13
Seal, 11 mm Diameter, Snap, PTFE/Silicone, Cert+, blue	ARO-5652-13-C
Seal, 11 mm Diameter, Snap, PTFE/Silicone, natural	ARO-5656-13
Seal, 11 mm Diameter, Snap, PTFE/Silicone, red	ARO-5651-13
Seal, 11 mm Diameter, Snap, PTFE/Silicone, green	ARO-5653-13
Seal, 11 mm Diameter, Snap, PTFE/Silicone, yellow	ARO-5654-13
Seal, 11 mm Diameter, Snap, PTFE/Rubber, natural	ARO-5646-13
Seal, 11 mm Diameter, Snap, PTFE, blue	ARO-5612-13
Seal, 11 mm Diameter, Snap, PTFE/Silicone/PTFE, blue	ARO-5661-13
preSlit	
Seal, 11 mm Diameter, Snap, PTFE/Silicone preSlit, blue	ARO-5672-13
Seal, 11 mm Diameter, Snap, PTFE/Silicone preSlit, natural	ARO-5676-13
Seal, 11 mm Diameter, Snap, PTFE/Silicone preSlit, red	ARO-5671-13
Seal, 11 mm Diameter, Snap, PTFE/Silicone preSlit, green	ARO-5673-13
Seal, 11 mm Diameter, Snap, PTFE/Silicone preSlit, yellow	ARO-5674-13
Seal, 11 mm Diameter, Snap, LDPE preSlit, natural*	ARO-5690-13



*Cap made of 100% LDPE with no PTFE or Silicone



Switch from Your Current Vials and Caps to Verex in 2 Easy Steps:

- 1 Enter your current vial or cap part number
- 2 Order the recommended Verex part number

Finding the Verex replacement to your current vials and caps is EASY. Use our online web tool to find the guaranteed Verex product match.

Visit: www.phenomenex.com/VialFinder

12 x 32 mm, 9 mm (9-425) Screw-Top Vials and Kits Convenience Kits – Certified PLUS (Cert+) Mass Spec Quality (MSQ) 9 mm Screw-Top Vials and Caps with Locked-Fit Septa

- For your most demanding analysis; high sensitive detectors
- HPLC and LC-MS tested and certified
- State-of-the-art design and manufacture



Ordering Information

Description	1000/pk
Cert+ MSQ Vial Kit, 9mm, 2 mL Clear w/ Patch + MSQ PTFE/Silicone	ARO-992A-13-M
Cert+ MSQ Vial Kit, 9mm, 2 mL Amber w/ Patch + MSQ PTFE/Silicone	ARO-992B-13-M

Convenience Kits – Certified PLUS (Cert+) 9 mm Screw-Top Vials and Caps with Bonded-In Septa

- Certified for cleanliness and enhanced quality
- Polyethylene-Starburst cap is an excellent choice for inertness



Ordering Information

Description	1000/pk
Cert+ Vial Kit, 9mm, 2 mL Clear w/ Patch + PTFE/Silicone cap	ARO-9921-13-C
Cert+ Vial Kit, 9mm, 2 mL Clear w/ Patch + PE-Starburst cap	ARO-9927-13-C
Cert+ Vial Kit, 9mm, 2 mL Amber w/ Patch + PTFE/Silicone, preSlit cap	ARO-9926-13-C

Convenience Kits – Certified PLUS (Cert+) Limited Volume Specialty 9 mm Screw-Top Vials and Caps

- Kits for microsampling (center-draining and fused-insert vials)
- Lower trace contaminants for higher sensitivity work



Ordering Information*

Description	100/pk	1000/pk
Cert+ Vial Kit, 9mm, Maximum Recovery (CD) Clear + PTFE/Silicone cap ^o	ARO-9987-12-C	ARO-9987-13-C
Cert+ Vial Kit, 9mm, Maximum Recovery (CD) Clear + PTFE/Silicone, preSlit cap ^o	ARO-9988-12-C	ARO-9988-13-C
Cert+ Vial Kit, 9mm, High Recovery (CD) Clear + PE-Starburst cap ^o	ARO-9985-12-C	ARO-9985-13-C
Cert+ Vial Kit, 9mm, High Recovery (CD) Amber + PE-Starburst cap ^o	ARO-9986-12-C	ARO-9986-13-C
Cert+ Vial Kit, 9mm, µVial i3(Qsert) Clear w/ Patch + PTFE/Silicone, preSlit cap ^o	ARO-9974-12-C	ARO-9974-13-C

*No write-on patch unless otherwise indicated

^o-B = Bonded-In Septa. ^o Cap is one piece, constructed of ultra-pure, medical-grade polyethylene.



Convenience Kits – 9 mm Screw-Top Vials and Caps with Bonded-In Septa

- Sample volume range from 0.2 to 1.5 mL



Ordering Information

Description	1000/pk
Vial Kit, 9mm, 2 mL Clear + PTFE/Silicone	ARO-9901-13
Vial Kit, 9mm, 2 mL Clear + PTFE/Silicone, preSlit	ARO-9903-13
Vial Kit, 9mm, 2 mL Clear w/ Patch + PTFE/Silicone	ARO-9921-13
Vial Kit, 9mm, 2 mL Clear w/ Patch + PTFE/Silicone, Silanized	ARO-9921-13-D
Vial Kit, 9mm, 2 mL Clear w/ Patch + PTFE/Silicone, preSlit	ARO-9925-13
Vial Kit, 9mm, 2 mL Clear w/ Patch + PTFE/Silicone, preSlit, Silanized	ARO-9925-13-D
Vial Kit, 9mm, 2 mL Clear + PTFE/Silicone/PTFE	ARO-9905-13
Vial Kit, 9mm, 2 mL Clear + PTFE/Rubber	ARO-9907-13
Vial Kit, 9mm, 2 mL Clear w/ Patch + PTFE/Rubber, preSlit	ARO-9914-13
Vial Kit, 9mm, 2 mL Amber w/ Patch + PTFE/Silicone	ARO-9922-13
Vial Kit, 9mm, 2 mL Amber w/ Patch + PTFE/Silicone, Silanized	ARO-9922-13-D
Vial Kit, 9mm, 2 mL Amber w/ Patch + PTFE/Silicone, preSlit	ARO-9926-13
Vial Kit, 9mm, 2 mL Amber w/ Patch + PTFE/Silicone, preSlit, Silanized	ARO-9926-13-D
Vial Kit, 9mm, 2 mL Amber w/ Patch + PTFE/Silicone/PTFE	ARO-9923-13
Vial Kit, 9mm, 2 mL Amber w/ Patch + PTFE/Rubber	ARO-9912-13



Learn More. For additional product selection and detailed information visit:

www.phenomenex.com/Verex

12 x 32 mm, 9 mm (9-425) Screw-Top Vials and Kits (cont'd)

Convenience Kits – Limited Volume Specialty 9 mm Screw-Top Vials and Caps with Bonded-In Septa

- Kits for microsampling (center-draining and fused-insert vials)
- CD and Qsert vials offer superior performance over vials with loose inserts

Ordering Information*

Description	100/pk	1000/pk
Vial Kit, 9 mm, High Recovery (CD) Clear + PTFE/Silicone	ARO-9981-12	ARO-9981-13
Vial Kit, 9 mm, High Recovery (CD) Clear + PTFE/Silicone, preSlit	ARO-9982-12	ARO-9982-13
Vial Kit, 9 mm, µVial i3 (Qsert) Clear w/ Patch + PTFE/Silicone	ARO-9973-12	ARO-9973-13
Vial Kit, 9 mm, µVial i3 (Qsert) Clear w/ Patch + PTFE/Silicone, preSlit	ARO-9974-12	ARO-9974-13
Vial Kit, 9 mm, PP, 300 µL + PTFE/Silicone**	ARO-9991-12	ARO-9991-13
Vial Kit, 9 mm, PP, 300 µL + PTFE/Silicone, preSlit**	ARO-9992-12	ARO-9992-13

*No write-on patch unless otherwise indicated. **Vial made of Polypropylene.



Convenience Kits – Assembled 9 mm Screw-Top Vials and Caps with Bonded-In Septa

- Cap and septa attached to vials
- Ready to use
- Save time and labor

Ordering Information*

Description	1000/pk
Vial Kit, 9 mm, 2 mL Clear w/ Patch + PTFE/Silicone, preSlit	ARO-9925-13-A
Vial Kit, 9 mm, 2 mL Amber w/ Patch + PTFE/Silicone, preSlit	ARO-9926-13-A

*-A = Assembled



9 mm Screw-Top Vials, 2.0 mL

- Used with most autosamplers, including Agilent®, Thermo Scientific®, Waters® and many others
- Performs as well as crimp or snap vials
- Offers improved cap convenience and accessibility (easy on, easy off)

Ordering Information

Description	1000/pk
Vial, 9 mm Screw, 2 mL Clear, No Patch	ARO-3900-13
Vial, 9 mm Screw, 2 mL Amber, No Patch	ARO-3901-13
Vial, 9 mm Screw, 2 mL Clear, w/ Patch	ARO-3910-13
Vial, 9 mm Screw, 2 mL Amber, w/ Patch	ARO-3911-13
Vial, 9 mm Screw, 2 mL Clear, w/ Patch, Silanized	ARO-3960-13



Need help matching your current vials and caps to Verex? Visit: www.phenomenex.com/VialFinder

Limited Volume Specialty 9 mm Screw-Top Vials

- Microsampling Qsert and v-Vial center-draining vials
- Qsert fused-insert vials ensure proper seating of the cap
- Extremely low residual volume
- Polypropylene (PP) vial kits for bio- or ion chromatography, or pH-sensitive samples

Ordering Information

Description	100/pk	1000/pk
Vial, 9 mm Screw, µVial i3 (Qsert) Clear, No Patch	ARO-3920-12	ARO-3920-13
Vial, 9 mm Screw, µVial i3 (Qsert) Amber, No Patch	ARO-3921-12	ARO-3921-13
Vial, 9 mm Screw, v-Vial Clear, No Patch*	ARO-3940-12	ARO-3940-13
Vial, 9 mm Screw, v-Vial Amber, No Patch*	ARO-3941-12	ARO-3941-13
Cert+ Vial, 9 mm, Screw, PP, 300 µL Clear, No Patch**	ARO-39S0-12-C	ARO-39S0-13-C
Vial, 9 mm, Screw, PP, 1.7 mL Clear, No Patch**	—	ARO-39P0-13
Vial, 9 mm, Screw, PP, 700 µL Clear, No Patch**	—	ARO-39P1-13
Vial, 9 mm, Screw, PP, 300 µL Clear, No Patch**	—	ARO-39P2-13

*51-Expansion glass. **Vial made of Polypropylene.



12 x 32 mm, 9 mm (9-425) Screw-Top Vials and Kits (cont'd)

Certified PLUS (Cert+) Mass Spec Quality (MSQ) Caps for 9 mm Screw-Top Vials

- HPLC and LC-MS tested and certified
- For your most demanding analysis; high sensitive detectors
- Locked-fit provides a positive physical septa lock into the cap



MS Quality. Constructed of virgin polymers, free of siloxanes and trace contaminants, these caps are the cleanest available from Phenomenex.

Ordering Information

Description	1000/pk
Cert+ MSQ Cap (pre-assembled), 9 mm, w/ Locked-fit PTFE/Silicone septa, blue	ARO-8952-13-M
Cert+ MSQ Cap (pre-assembled), 9 mm, w/ Locked-fit PTFE/Silicone preSlit septa, blue	ARO-8972-13-M



Certified PLUS (Cert+) Caps for 9 mm Screw-Top Vials

- Certified ultra-clean
- High-grade, preconditioned raw materials
- Finished product inspected and LC-MS tested



Ordering Information

Description	1000/pk
Cert+ Cap (pre-assembled), 9 mm, w/ Bonded-in PTFE/Silicone septa, blue	ARO-8952-13-C
Cert+ Cap (pre-assembled), 9 mm, w/ Bonded-in PTFE/Silicone preSlit septa, blue	ARO-8972-13-C
Cert+ Cap (one-piece), 9 mm PE w/ Starburst preSlit, natural ^{ΔΔ}	ARO-89P6-13-C



^ΔCap is one piece, constructed of ultra-pure, medical-grade polyethylene
^{ΔΔ}This cap is compatible with all 9 mm screw top vials except ARO-39P2-13

Bonded-In Caps for 9 mm Screw-Top Vials

- Bonded septa caps eliminate costly liner/septa fallout
- Prevents rework and wasted productivity with perfect-fit septa
- Saves instrument downtime



Ordering Information

Description	1000/pk
Cap (pre-assembled), 9 mm, w/ Bonded-in PTFE/Silicone septa, black	ARO-8957-13-B
Cap (pre-assembled), 9 mm, w/ Bonded-in PTFE/Silicone septa, blue	ARO-8952-13-B
Cap (pre-assembled), 9 mm, w/ Bonded-in PTFE/Silicone septa, natural	ARO-8956-13-B
Cap (pre-assembled), 9 mm, w/ Bonded-in PTFE/Silicone septa, red	ARO-8951-13-B
Cap (pre-assembled), 9 mm, w/ Bonded-in PTFE/Silicone septa, green	ARO-8953-13-B
Cap (pre-assembled), 9 mm, w/ Bonded-in PTFE/Silicone preSlit septa, black	ARO-8977-13-B
Cap (pre-assembled), 9 mm, w/ Bonded-in PTFE/Silicone preSlit septa, blue	ARO-8972-13-B
Cap (pre-assembled), 9 mm, w/ Bonded-in PTFE/Silicone preSlit septa, grey	ARO-8976-13-B
Cap (one-piece), 9 mm PP, molded, natural*	ARO-39P9-13
Cap 9 mm Solid Top, Unlined (no Septa), Polypropylene, black	ARO-89C7-13



For a more economical alternative, Press-Fit Caps are available. Contact your Phenomenex technical consultant or distributor.

Description	100/pk
Poly/Steel Caps	
Poly/Steel Cap (pre-assembled), 9 mm, w/ Bonded-in PTFE/Silicone septa, blue	ARO-895P-12-B
Poly/Steel Cap (pre-assembled), 9 mm, w/ Bonded-in PTFE/Silicone preSlit septa, blue	ARO-897P-12-B



*Cap is one piece, constructed of ultra-pure, medical-grade polyethylene

Inserts for 9 mm Screw-Top Vials

- For limited volume sampling in 2 mL sample vials
- Virtually no adsorption or pH effects

Ordering Information^Δ

Description	500/pk	1000/pk
Insert, 6 mm Diameter, Flat Bottom, 450 μL	ARO-4610-52	—
Insert, 6 mm Diameter, Flat Bottom, 450 μL, Silanized	ARO-4615-52	—
Insert, 6 mm Diameter, Conical Bottom, 350 μL	—	ARO-4620-13
Insert, 6 mm Diameter, Conical Bottom, w/ bottom spring, 300 μL	—	ARO-4621-13
Insert, 6 mm Diameter, Conical Bottom, w/ bottom spring, 300 μL, Silanized	—	ARO-4623-13

^ΔApproximate useable volume indicated in μL



12 x 32mm, 8mm (8-425) Screw-Top Vials

8mm Screw-Top Vials, 2.0mL

- Standard-neck vials for Agilent® and Shimadzu® autosamplers
- 33-Expansion clear glass (USP Type 1 borosilicate, Class A), 51A amber glass

Ordering Information

Description	1000/pk
Vial, 8mm Screw, 2mL Clear, No Patch	ARO-3800-13
Vial, 8mm Screw, 2mL Clear, w/ Patch	ARO-3810-13
Vial, 8mm Screw, 2mL Amber, No Patch	ARO-3801-13
Vial, 8mm Screw, 2mL Amber, w/ Patch	ARO-3811-13



Caps / Closures for 8mm Screw-Top Vials

- Prevent rework and wasted productivity with perfect fit bonded-in septa
- Fewer trace contaminants for higher sensitivity work

Ordering Information

Description	1000/pk
Cap (pre-assembled), 8-425, w/ Bonded-in PTFE/Silicone septa, black*	ARO-8857-13-B
Cap (pre-assembled), 8-425, w/ Bonded-in PTFE/Silicone preSlit septa, black*	ARO-8877-13-B
Cap (pre-assembled), 8-425, w/ PTFE/Silicone septa, black**	ARO-8857-13
Cap (pre-assembled), 8-425, w/ PTFE/Silicone preSlit septa, black**	ARO-8877-13
Cap (pre-assembled), 8-425, w/ PTFE/Silicone septa, w/ flange, yellow	ARO-8834-13
Cap (pre-assembled), 8-425, w/ PTFE/Silicone/PTFE septa, black**	ARO-8867-13
Cap (pre-assembled), 8-425, w/ Open-top cap (w/o septa), black	ARO-8897-13



*-B = Bonded-in Septa

**Press-Fit-Septa

Septa for 8mm Screw Caps

- Preconditioned and tested
- For caps / closures without septa (ARO-8897-13)

Ordering Information

Description	1000/pk
Septa, 8mm Diameter, PTFE/Silicone 0.060 in	ARO-6853-13
Septa, 8mm Diameter, PTFE/Silicone/PTFE 0.060 in	ARO-6863-13
Septa, 8mm Diameter, PTFE 0.010 in	ARO-6817-13



Need help matching your current vials and caps to Verex? Visit: www.phenomenex.com/VialFinder

Inserts for 8mm Screw-Top Vials

- For limited volume sampling
- Transforms full capacity vials to micro sample vials

Ordering Information^Δ

Description	500/pk	1000/pk
Insert, 5mm Diameter, Flat Bottom, 200 μL	ARO-4510-52	ARO-4510-13
Insert, 5mm Diameter, Conical Bottom, 100 μL	—	ARO-4520-13
Insert, 5mm Diameter, Conical Bottom, w/ bottom spring, 175 μL	—	ARO-4521-13

^ΔApproximate useable volume indicated in μL



12 x 32 mm, 10 mm (10-425) Screw-Top Vials and Kits

Convenience Kits

10 mm Screw-Top Vials and Caps with Bonded-In Septa

- Available in assembled ready to use kits
- Offered with silanization

Ordering Information

Description	100/pk	1000/pk
Vial Kit, 10 mm, 2 mL Clear, No Patch + PTFE/Silicone, preSlit	—	ARO-9003-13
Vial Kit, 10 mm, 2 mL Clear, No Patch + PTFE/Silicone, Silanized	ARO-9005-12	—
Vial Kit, 10 mm, 2 mL Clear, No Patch + PTFE/Silicone, preSlit, Silanized	ARO-9006-12	—
Vial Kit, 10 mm, 2 mL Clear, w/ Patch + PTFE/Silicone*	—	ARO-9021-13-A
Vial Kit, 10 mm, 2 mL Amber, w/ Patch + PTFE/Silicone*	—	ARO-9022-13-A

*-A = Assembled



10 mm Screw-Top Vials, 2.0 mL

- Easy-to-fill wide-neck vials

Ordering Information

Description	1000/pk
Vial, 10 mm Screw, 2 mL Clear, No Patch	ARO-3000-13
Vial, 10 mm Screw, 2 mL Clear, w/ Patch	ARO-3010-13
Vial, 10 mm Screw, 2 mL Clear, No Patch, Silanized	ARO-3003-13
Vial, 10 mm Screw, 2 mL Amber, No Patch	ARO-3001-13
Vial, 10 mm Screw, 2 mL Amber, w/ Patch	ARO-3011-13



Limited Volume Specialty 10 mm Screw-Top Vials

- Microsampling Qsert and center-draining vial
- Extremely low residual volume

Ordering Information

Description	100/pk	1000/pk
Vial, 10 mm Screw, µVial i3 (Qsert) Clear, No Patch	ARO-3020-12	ARO-3020-13
Vial, 10 mm Screw, µVial i3 (Qsert) Amber, No Patch	ARO-3021-12	ARO-3021-13
Vial, 10 mm Screw, v-Vial, Clear, No Patch	ARO-3040-12	ARO-3040-13



Caps / Closures

for 10 mm Screw-Top Vials

- High quality preconditioned septa
- Bonded-in or press-fit
- Prevent rework and wasted productivity with perfect fit bonded-in septa

Ordering Information

Description	1000/pk
Cap (pre-assembled), 10-425, w/ Bonded-in PTFE/Silicone septa, black*	ARO-8057-13-B
Cap (pre-assembled), 10-425, w/ Bonded-in PTFE/Silicone preSlit septa, black*	ARO-8077-13-B
Cap (pre-assembled), 10-425, w/ PTFE/Silicone septa, black**	ARO-8057-13
Cap (pre-assembled), 10-425, w/ PTFE/Silicone preSlit septa, black**	ARO-8077-13

*-B = Bonded-in Septa

**Press-fit Septa



Inserts

for 10 mm Screw-Top Vials

- For limited volume sampling

Ordering Information^Δ

Description	500/pk	1000/pk
Insert, 6 mm Diameter, Flat Bottom, 450 µL	ARO-4610-52	—
Insert, 6 mm Diameter, Flat Bottom, 450 µL, Silanized	ARO-4615-52	—
Insert, 6 mm Diameter, Conical Bottom, 350 µL	—	ARO-4620-13
Insert, 6 mm Diameter, Conical Bottom, w/ bottom spring, 300 µL	—	ARO-4621-13
Insert, 6 mm Diameter, Conical Bottom w/ bottom spring, 300 µL, Silanized	—	ARO-4623-13

^ΔApproximate useable volume indicated in µL



15 x 45 mm, 13 mm (13-425) Screw-Top Vials and Kits

Convenience Kits – 13mm Screw-Top Vials and Caps

- Original Waters® 4 mL WISP™ autosampler vial
- General purpose sample / standard storage vial

Ordering Information

Description	1000/pk
Vial Kit, 4 mL Clear w/ Patch + screw caps 13-425, PTFE/Silicone* ^Δ	ARO-9321-13-A
Vial Kit, 4 mL Amber w/Patch + screw caps 13-425, PTFE/Silicone*	ARO-9422-13-A
Vial Kit, 4 mL Amber w/ Patch + screw caps 13-425, PTFE 0.01 in.*	ARO-9392-13-A

*-A = Assembled. ^Δ = Bonded-In Septa



13mm Screw-Top Vials, 4.0mL

Ordering Information

Description	1000/pk
Vial, 4 mL Screw Clear, No Patch	ARO-3300-13
Vial, 4 mL Screw Clear, w/ Patch	ARO-3310-13
Vial, 4 mL Screw Amber, No Patch	ARO-3301-13



Limited Volume Specialty 13mm Screw-Top Vials

- Center-draining bottom for low-volume samples

Ordering Information

Description	100/pk	1000/pk
Vial, 4 mL Screw High Recovery (CD) Clear, No Patch	ARO-3370-12	ARO-3370-13



Caps / Closures for 13mm Screw Top Vials

- High quality, pre-conditioned septa
- Available with bonded-in septa

Ordering Information

Description	1000/pk
Cap (pre-assembled), 13-425, w/ Bonded-in PTFE/Silicone septa, black*	ARO-8357-13-B
Cap (pre-assembled), 13-425, w/ PTFE/Silicone septa, black ^{ΔΔ}	ARO-8357-13

*-B = Bonded-in Septa. ^{ΔΔ} = Press-fit



Shell Vials

- Original 1 mL and 4 mL shell vials for Waters® 96- and 48-position autosampler trays
- Kits include high-quality borosilicate glass vials with convenient push-in polyethylene cap

Convenience Kits – Shell Vials, 1.0 and 4.0 mL

Ordering Information

Description	1000/pk
Shell Vial Kit, 8 x 40 mm, 1 mL Flat Bottom, Clear® + PE Cap	ARO-3110-13
Shell Vial Kit, 15 x 45 mm, 4 mL Flat Bottom, Clear® + PE Cap	ARO-3170-13

* 51-Expansion glass.



Convenience Kits – Certified PLUS (Cert+) Shell Vials, 1.0 mL

Ordering Information

Description	200/pk
Cert+ Shell Vial Kit, 8 x 40 mm, 1 mL Flat Bottom, Clear + PE Cap	ARO-3110-22-C
Cert+ Shell Vial Kit, 8 x 40 mm, 1 mL Flat Bottom, Amber + PE Cap	ARO-3111-22-C

Headspace Vials

Screw- and Crimp-Top Headspace Vials

- 10 and 20 mL screw- or crimp-top, with round or flat bottom
- Uniform glass thickness ensures even heating
- Lot traceable



Ordering Information

Description	1000/pk
Crimp-Top	
Headspace Vial, 22 x 38 mm, 6 mL Beveled Edge, Flat Bottom, Clear, No Patch	ARO-32F0-13
Headspace Vial, 22 x 38 mm, 6 mL Square Rim, Flat Bottom, Clear, No Patch	ARO-32D0-13
Headspace Vial, 22 x 38 mm, 6 mL Beveled Edge, Round Bottom, Clear, No Patch	ARO-32G0-13
Headspace Vial, 23 x 46 mm, 10 mL Beveled Edge, Flat Bottom, Clear, No Patch	ARO-3220-13
Headspace Vial, 23 x 46 mm, 10 mL Square Rim, Flat Bottom, Clear, No Patch	ARO-32A0-13
Headspace Vial, 23 x 46 mm, 10 mL Beveled Edge, Round Bottom, Clear, No Patch	ARO-3230-13
Headspace Vial, 23 x 75 mm, 20 mL Beveled Edge, Flat Bottom, Clear, No Patch	ARO-3260-13
Headspace Vial, 23 x 75 mm, 20 mL Beveled Edge, Flat Bottom., Clear, No Patch, Silanized	ARO-3263-13
Headspace Vial, 23 x 75 mm, 20 mL Square Rim, Flat Bottom, Clear, No Patch	ARO-3290-13
Headspace Vial, 23 x 75 mm, 20 mL Beveled Edge, Round Bottom, Clear, No Patch	ARO-3270-13
Screw-Top	
Headspace Vial, 23 x 46 mm, 10 mL 18 mm Screw, Round Bottom, Clear, No Patch	ARO-32H0-13
Headspace Vial, 23 x 46 mm, 10 mL 18 mm Screw, Round Bottom, Amber, No Patch	ARO-32H1-13
Headspace Vial, 23 x 75 mm, 20 mL 18 mm Screw, Round Bottom, Clear, No Patch	ARO-3280-13
Headspace Vial, 23 x 75 mm, 20 mL 18 mm Screw, Round Bottom, Amber, No Patch	ARO-3281-13



Autosampler Compatibility

Flat Bottom: HP / Agilent, Carlo Erba, Shimadzu

Round Bottom: PerkinElmer, Tekmar, LEAP Technologies, Varian

AUTOSAMPLER VIALS | VIALS - SAMPLE HANDLING

Headspace Screw- and Crimp-Top Seals / Closures

- Variety of styles for any application
- Magnetic and pressure-release caps available

Ordering Information

Description	1000/pk
Crimp-Top	
Seal, 20 mm Diameter, PTFE/Gray Butyl Rubber, magnetic cap	ARO-52C5-13
Seal, 20 mm Diameter, PTFE/Butyl Rubber Pharmafix Molded Septum, silver	ARO-52D0-13
Seal, 20 mm Diameter, PTFE/Butyl Rubber Pressure Release, Pharmafix Molded Septum, silver	ARO-52B0-13
Seal, 20 mm Diameter, PTFE/Silicone, magnetic cap	ARO-5255-13
Seal, 20 mm Diameter, PTFE/Silicone, silver	ARO-5250-13
Seal, 20 mm Diameter, PTFE/Silicone Pressure Release, silver	ARO-5220-13
Screw-Top	
Screw Cap, 18 mm, Magnetic, Silver, PTFE/Butyl Rubber septa (red/grey)	ARO-814M-13
Screw Cap, 18 mm, Magnetic, Silver, PTFE/Silicone septa (red/white)	ARO-815M-13
Screw Cap, 18 mm, Magnetic, Silver, PTFE/Silicone septa (blue/white)	ARO-81AM-13
Screw Cap, 18 mm, Magnetic, Silver, PTFE/Silicone septa (white/translucent blue)	ARO-81BM-13



VOA / ASE Assembled Vial Kits and Storage Vial Kits

- Convenience and assembled kits include vials with matching seals / closures
- Clear or amber, with open top or closed caps
- PTFE (Teflon®) faced 0.125 in. silicone septa or PTFE with foam urethane backing
- Lot numbered for traceability



Ordering Information

Description	100/pk	1000/pk
Storage Vial Kits		
Vial Kit, Storage, 20 mL Screw, Clear w/ Caps 24-400 white PTFE/Foam Urethane liner, closed top	ARO-9559-12	ARO-9559-13
Vial Kit, Storage, 20 mL Screw, Amber w/ Caps 24-400 white PTFE/Foam Urethane liner, closed top	ARO-9551-12	ARO-9551-13
Vial Kit, Storage, 40 mL Screw, Clear w/ Caps 24-400 white PTFE/Foam Urethane, closed top	ARO-9542-12	ARO-9542-13
Vial Kit, Storage, 40 mL Screw, Amber w/Caps 24-400 white PTFE/Foam Urethane, closed top	ARO-9543-12	ARO-9543-13
VOA/ASE Vial Kits		
Vial Kit, VOA/ASE, 40 mL Screw, Clear w/Caps 24-400 white PTFE/Silicone, open top	ARO-9540-12	ARO-9540-13
Vial Kit, VOA/ASE, 40 mL Screw, Clear w/Caps 24-400 white PTFE/Silicone, (assembled), open top	ARO-9540-12-A	ARO-9540-13-A
Vial Kit, VOA/ASE, 40 mL Screw, Amber w/ Caps 24-400 white PTFE/Silicone, open top	ARO-9541-12	—
Vial Kit, VOA/ASE, 20 mL Screw, Clear w/ Caps 24-400 white PTFE/Silicone (assembled)*, open top	ARO-9531-12-E	ARO-9531-13-E

* EPA certified Class 100 vials, caps, and septa are assembled, without processing.
ASE = Dionex Accelerated Solvent Extractor for pesticide analysis.

VOA / ASE Vials and Caps (Separate)

Ordering Information

Description	200/pk
Vials	
Vial, VOA/ASE, 40 mL Screw, Clear, 24-400 Threads (No Cap)	ARO-35V0-22
Vial, VOA/ASE, 40 mL Screw, Amber, 24-400 Threads (No Cap)	ARO-35V1-22
Caps	
Cap (pre-assembled), Screw (24-414), w/ Bonded-in PTFE/Silicone septa, white	ARO-8557-13-B

SAMPLE HANDLING - VIALS | AUTOSAMPLER VIALS



Learn More. For additional product selection and detailed information visit:
www.phenomenex.com/Verex

Protect your HPLC/UHPLC and GC columns and equipment with Phenex Syringe Filters

Filtering your sample helps prevent column and frit blockage, undue wear on detectors, pumps, valves, injector seals, and abnormally high operating pressures. Non-filtered samples can also lead to non-reproducible results and significant instrument downtime.

See page 8 or Visit:
www.phenomenex.com/SFfinder



Verex™ -EU Vial Products

Offered by Phenomenex in Europe only.

Leading in Quality, Delivery, and Support

From start to finish, Verex-EU vial and cap products are manufactured to provide high quality, state-of-the-art solutions for your most challenging, sensitive applications.

Certified

The highest quality materials combine with tightly controlled manufacturing processes to produce uniform, trouble-free products you can rely on.

100 % Defect-Free

No product is placed in inventory without passing cleanliness and performance testing for consistent results.

Clear and Amber Glass

Verex-EU vials use 51A-Expansion glass (USP Type 1 borosilicate, Class B) for both clear and amber glass vials.



Learn More. For additional product selection and detailed information visit: www.phenomenex.com/Verex

12 x 32 mm, 11 mm Crimp-Top Vials and Seals

Ordering Information

Description	100/pk
Verex-EU Vial, Crimp, 2 mL Clear, w/ Patch	AR1-3710-12
Verex-EU Vial, Crimp, 2 mL Amber, w/ Patch	AR1-3711-12



Seals / Closures for Crimp-Top Vials

Ordering Information

Description	100/pk
Seal, 11 mm Diameter, Crimp, PTFE/Silicone, silver	AR0-5780-12
Seal, 11 mm Diameter, Crimp, PTFE/Silicone/PTFE, silver	AR0-5760-12
Seal, 11 mm Diameter, Crimp, PTFE/Rubber, silver	AR1-5740-12
Seal, 11 mm Diameter, Crimp, PTFE/Rubber, blue	AR1-5742-12
Seal, 11 mm Diameter, Crimp, PTFE/Rubber, red	AR1-5741-12
Seal, 11 mm Diameter, Crimp, PTFE/Rubber, green	AR0-5743-12
Seal, 11 mm Diameter, Crimp, PTFE/Rubber, gold	AR0-5746-12
Seal, 11 mm Diameter, Crimp, PTFE, silver	AR0-5710-12



12 x 32 mm, 11 mm Snap-Top Vials and Caps

Ordering Information

Description	100/pk
Verex-EU Vial, Snap, 2 mL Clear, w/ Patch	AR1-3610-12
Verex-EU Vial, Snap, 2 mL Amber, w/ Patch	AR1-3611-12



Seals / Closures for Snap-Top Vials

Ordering Information

Description	100/pk
Seal, 11 mm Diameter, Snap, PTFE/Silicone, blue	AR1-5652-12
Seal, 11 mm Diameter, Snap, PTFE/Silicone, natural	AR1-5656-12
Seal, 11 mm Diameter, Snap, PTFE/Silicone preSlit, blue	AR1-5672-12
Seal, 11 mm Diameter, Snap, PTFE/Silicone preSlit, natural	AR0-5676-12
Seal, 11 mm Diameter, Snap, PTFE/Rubber, natural	AR0-5646-12
Seal, 11 mm Diameter, Snap, PTFE, blue	AR0-5612-12



12 x 32 mm, 13 mm (13-425) Screw-Top Vials and Caps

Ordering Information

Description	100/pk
Verex-EU Vial, 4 mL Screw Clear, w/ Patch	AR1-3310-12



Caps / Closures for 13 mm Screw Top Vials

Ordering Information

Description	100/pk
Cap (pre-assembled), 13-425, w/ Bonded-in PTFE/Silicone septa, black [□]	AR0-8357-12-B
Cap (pre-assembled), 13-425, w/ PTFE/Silicone septa, black ^{□□}	AR0-8357-12



[□]-B = Bonded-in Septa. ^{□□} Press-Fit Septa

Verex™ -EU Vial Products

Offered by Phenomenex in Europe only.



MS Quality. Constructed of virgin polymers, free of siloxanes and trace contaminants, these caps are the cleanest available from Phenomenex.

12 x 32 mm, 9 mm (9-425) Screw-Top Vials and Caps

Ordering Information

Description	100/pk
Verex-EU Vial, 9 mm Screw, 2 mL Clear, w/ Patch	AR1-3910-12
Verex-EU Vial, 9 mm Screw, 2 mL Amber, w/ Patch	AR1-3911-12



Caps for 9 mm Screw-Top Vials

Ordering Information

Description	100/pk
Certified PLUS (Cert+) Mass Spec Quality (MSQ) Caps for 9-425 Screw-Top Vials	
Cert+ MSQ Cap (pre-assembled), 9 mm, w/ Locked-fit PTFE/Silicone septa, blue	ARO-8952-12-M
Cert+ MSQ Cap (pre-assembled), 9 mm, w/ Locked-fit PTFE/Silicone preSlit septa, blue	ARO-8972-12-M
Certified PLUS (Cert+) Caps for 9-425 Screw-Top Vials	
Cert+ Cap (pre-assembled), 9 mm, w/ Bonded-in PTFE/Silicone septa, blue	ARO-8952-12-C
Cert+ Cap (pre-assembled), 9 mm, w/ Bonded-in PTFE/Silicone preSlit septa, blue	ARO-8972-12-C
Cert+ Cap (one-piece), 9 mm PE w/ Starburst preSlit, natural*	ARO-89P6-12-C
Bonded-In Caps for 9-425 Screw-Top Vials	
Cap (pre-assembled), 9 mm, w/ Bonded-in PTFE/Silicone septa, black	ARO-8957-12-B
Cap (pre-assembled), 9 mm, w/ Bonded-in PTFE/Silicone septa, blue	AR1-8952-12-B
Cap (pre-assembled), 9 mm, w/ Bonded-in PTFE/Silicone septa, natural	AR1-8956-12-B
Cap (pre-assembled), 9 mm, w/ Bonded-in PTFE/Silicone septa, red	AR1-8951-12-B
Cap (pre-assembled), 9 mm, w/ Bonded-in PTFE/Silicone preSlit septa, black	ARO-8977-12-B
Cap (pre-assembled), 9 mm, w/ Bonded-in PTFE/Silicone preSlit septa, blue	ARO-8972-12-B



* Cap is one piece, constructed of ultra-pure, medical-grade polyethylene

12 x 32 mm, 8 mm (8-425) Screw-Top Vials and Caps

Ordering Information

Description	100/pk
Verex-EU Vial, 8 mm Screw, 2 mL Clear, w/ Patch	AR1-3810-12
Verex-EU Vial, 8 mm Screw, 2 mL Amber, w/ Patch	AR1-3811-12



Caps / Closures for 8 mm Screw-Top Vials

Ordering Information

Description	100/pk
Cap (pre-assembled), 8-425, w/ Bonded-in PTFE/Silicone septa, black [□]	ARO-8857-12-B
Cap (pre-assembled), 8-425, w/ Bonded-in PTFE/Silicone preSlit septa, black ^{□□}	ARO-8877-12-B
Cap (pre-assembled), 8-425, w/ PTFE/Silicone septa, black ^{□□□}	ARO-8857-12
Cap (pre-assembled), 8-425, w/ PTFE/Silicone preSlit septa, black ^{□□□}	ARO-8877-12
Cap (pre-assembled), 8-425, w/ PTFE/Silicone/PTFE septa, black ^{□□□}	ARO-8867-12
Cap (pre-assembled), 8-425, w/ Open-top cap (w/o septa)	ARO-8897-12

[□]-B = Bonded-in Septa. ^{□□□} Press-Fit Septa



Septa for 8 mm Screw Caps

Ordering Information

Description	100/pk
Septa, 8 mm Diameter, PTFE/Silicone 0.060 in.	ARO-6853-12
Septa, 8 mm Diameter, PTFE 0.010 in.	ARO-6817-12



Need help matching your current vials and caps to Verex? Visit: www.phenomenex.com/VialFinder

SAMPLE HANDLING - VIALS | AUTOSAMPLER VIALS

Verex™ -EU Vial Products

Offered by Phenomenex in Europe only.

12 x 32 mm, 10 mm (10-425) Screw-Top Vials and Caps

Ordering Information

Description	100/pk
Verex-EU Vial, 10 mm Screw, 2 mL Clear, w/ Patch	AR1-3010-12
Verex-EU Vial, 10 mm Screw, 2 mL Amber, w/ Patch	AR1-3011-12



Caps/ Closures for 10 mm Screw-Top Vials

Ordering Information

Description	100/pk
Cap (pre-assembled), 10-425, w/ Bonded-in PTFE/Silicone septa, black [□]	ARO-8057-12-B
Cap (pre-assembled), 10-425, w/ Bonded-in PTFE/Silicone preSlit septa, black [□]	ARO-8077-12-B
Cap (pre-assembled), 10-425, w/ PTFE/Silicone septa, black ^{□□}	ARO-8057-12
Cap (pre-assembled), 10-425, w/ PTFE/Silicone preSlit septa, black ^{□□}	ARO-8077-12



[□]-B = Bonded-in Septa. ^{□□} Press-Fit Septa

Headspace Vials and Caps

Ordering Information

Description	100/pk
Verex-EU Headspace Vial, 23 x 46 mm, 10 mL Beveled Edge, Flat Bottom, Clear, No Patch	AR1-3220-12
Verex-EU Headspace Vial, 23 x 46 mm, 10 mL Beveled Edge, Round Bottom, Clear, No Patch	AR1-3230-12
Verex-EU Headspace Vial, 23 x 75 mm, 20 mL Beveled Edge, Flat Bottom, Clear, No Patch	AR1-3260-12
Verex-EU Headspace Vial, 23 x 75 mm, 20 mL Beveled Edge, Round Bottom, Clear, No Patch	AR1-3270-12



Headspace Crimp-Top Seals / Closures

Ordering Information

Description	100/pk
Seal, 20 mm Diameter, PTFE/Gray Butyl Rubber, magnetic cap	ARO-52C5-12
Seal, 20 mm Diameter, PTFE/Gray Butyl Rubber, Pressure Release, silver	ARO-52A0-12
Seal, 20 mm Diameter, PTFE/Butyl Rubber Pharmafix Molded Septum, silver	ARO-52D0-12
Seal, 20 mm Diameter, PTFE/Butyl Rubber Pressure Release, Pharmafix Molded Septum, silver	ARO-52B0-12
Seal, 20 mm Diameter, PTFE/Silicone, magnetic cap	ARO-5255-12
Seal, 20 mm Diameter, PTFE/Silicone, silver	AR1-5250-12
Seal, 20 mm Diameter, PTFE/Silicone Pressure Release, silver	ARO-5220-12



VOA Vials and Caps

Ordering Information

Description	100/pk
Verex-EU Vial 40 mL Clear 24-414 Screw 28 x 95 mm	AR1-35V0-12
Verex-EU Vial 60 mL Clear 24-414 Screw 28 x 140 mm	AR1-35A0-12
Verex-EU Vial 60 mL Amber 24-414 Screw 28 x 140 mm	AR1-35A1-12






VOA Vial Caps

Ordering Information

Description	100/pk
Verex Cap (pre-assembled), 24-414, w/ Bonded-in PTFE/Silicone septa, white	ARO-8557-12-B



 For Vial Inserts for 8 mm Screw-Top Vials, see p. 39
 For Vial Inserts for 9 mm Screw-Top Vials, see p. 38
 For Vial Inserts for 10 mm Screw-Top Vials, see p. 40

Make the Switch to Verex!



Easily Find Your Vial Online

2 Easy Steps:

- 1 Enter your current vial or cap part number
- 2 Order the recommended Verex part number

Visit: www.phenomenex.com/VialFinder

Download FREE Verex Autosampler Compatibility Chart

Manufacturer	Model	Crimp	Snap	Screw
	Vial Diameter (mm)	11	11	8
	Vial Thread Finish	12 x 32	12 x 32	12 x 32
	Bottom	Flat Bottom, Tapered Base	Flat Bottom, Tapered Base	Flat Bottom
DI Analytical	1020A			
	1088			
	1096+			
	4551A			
	1552			
PerkinElmer	Series 200, 85 vial tray	X		
	Series 200, 81/100 vial tray	X		
	Series 200, 205 vial tray	X		
		X		

Quick reference chart for selecting Verex vial products for your specific autosampler.

Visit: www.phenomenex.com/verex

Download FREE Verex Vials and Caps Poster Guide

Part Number	Volume	Vial Diameter	Cap Diameter	Cap Height
ARO-3000-13	1.5 mL	12 x 32 mm	13 mm	13 mm
ARO-3010-13	2 mL	12 x 32 mm	13 mm	13 mm
ARO-3040-13	4 mL	15 x 45 mm	13 mm	13 mm
ARO-3011-13	1.5 mL	12 x 32 mm	13 mm	13 mm
ARO-3010-13	2 mL	12 x 32 mm	13 mm	13 mm
ARO-3011-13	4 mL	15 x 45 mm	13 mm	13 mm

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