



Analytical Vials

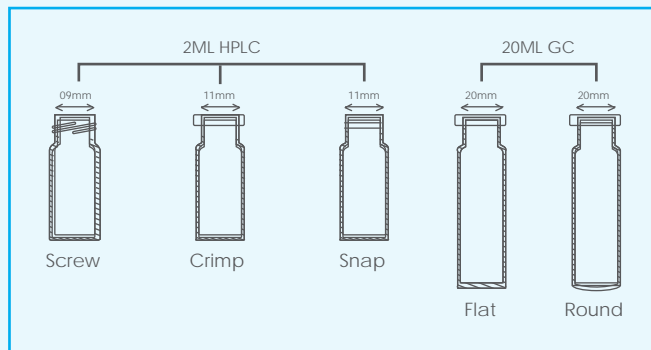
Precision sealed in every vial

We provide high-quality glass vials designed to meet the diverse needs of laboratories, pharmaceutical industries, and diagnostic facilities. Crafted from premium borosilicate glass, our vials are engineered for durability, chemical stability, and exceptional clarity ensuring safe storage and accurate handling of sensitive samples.

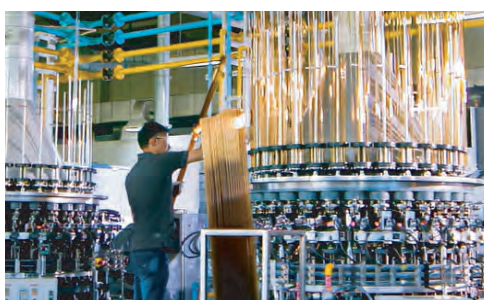
What are Vials?

Vial is a Scientific vessel used for the DRUG analysis.

The majority of leading pharmaceutical companies worldwide use this consumable in their **HPLC**, **GC**, and **TOC** systems for the accurate and reliable drug analysis.

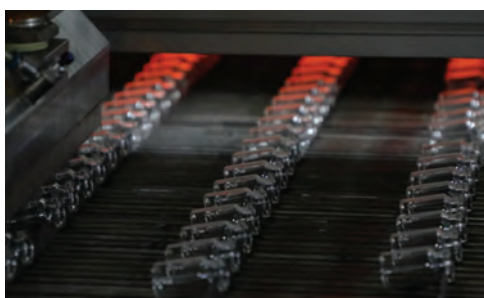
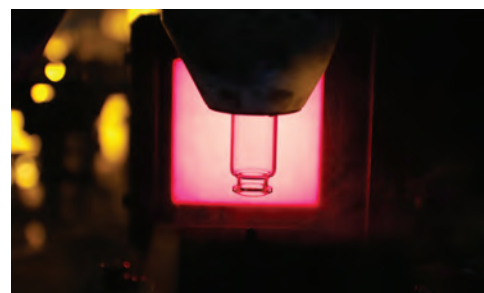


Vials manufacturing process



1 On automated machines for utmost consistency

2 **Dimensional Inspection**
Precision-controlled dimensions for consistent performance.



3 **Annealing Process**
Annealing imparts mechanical strength and relieves internal stress in the vial.

4 **Final Inspection Packing**
Packed in an ISO-certified Class 8 cleanroom facility with minimal human intervention.



Types of Vials

LC / LC-MS / GC-MS
Vials / Closures / Kit

2ml



Caps with PTFE
(Cleanliness) and Silicone
(Resealability) Septa

Quantity assurance
for the dimensional
consistency

GC-Headspace
Vials / Closures / Kit

20ml



Available in flat- and
round-bottom designs,
with options for a pressure
safety release cap rated
at 45 psi.

PRE-ASSEMBLED/EPA/TOC
Kit

40ml



Low-TOC vials, pre-assembled
with polypropylene caps and
PTFE/silicone septa.

- Borosil vials are manufactured under **Controlled process conditions**
- Online camera inspection ensures **100% dimensional accuracy**
- Class 8 cleanroom packaging minimizes the **risk of cross-contamination**



Quality Assurance

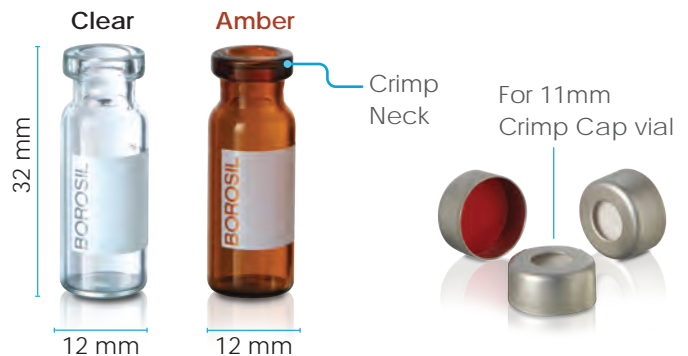


Risk Mitigation

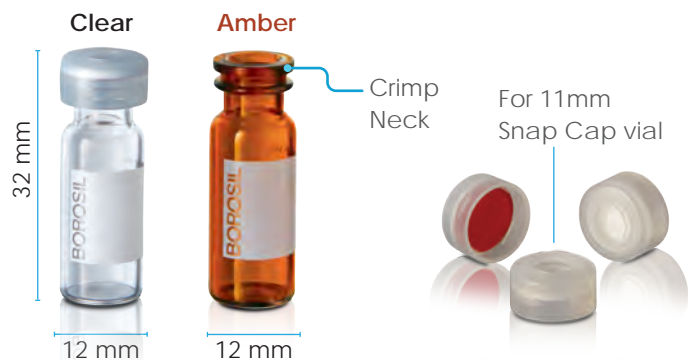
2ml HPLC Screw



2ml HPLC Crimp



2ml HPLC Snap Vials / Closure / Kit

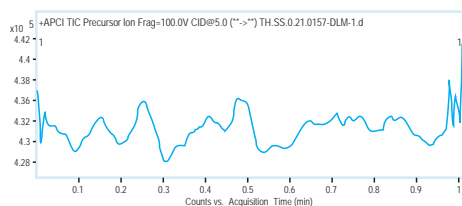


Also available in 3.3 Expansion Borosilicate Glass

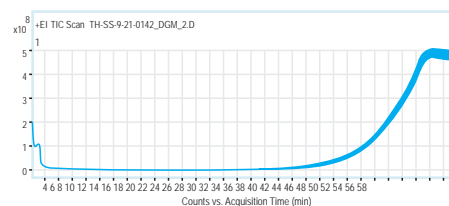
- Excellent sealing **chemical resistance** glass vials
- Snap ring caps are **more convenient** in handling (Pushing on / removal)
- Class 8 cleanroom packaging to avoid the **risk of cross-contamination**

Lowest leaching characteristics glass vials

LCMS-MS CHROMATOGRAM

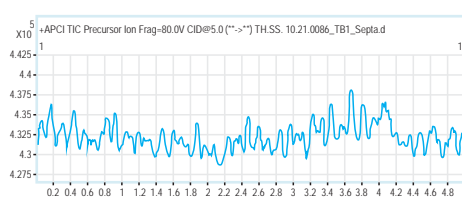


GCMS CHROMATOGRAM

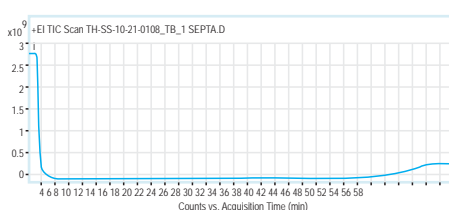


Lowest leaching characteristics septa

LCMS-MS CHROMATOGRAM



GCMS CHROMATOGRAM



Product Code

Neck Dia

Septa Feature 1

Graduation with write on patch

Septa Feature 2

Pack Size

Case Lot

Top **Clear** Vials made from Borosilicate USP Type I 49-Expansion glass with Closure

	Product Code	Neck Dia	Septa Feature 1	Graduation with write on patch	Septa Feature 2	Pack Size	Case Lot
9mm Screw	VC02C009PBS124	9mm	Non Slit	NO	Bonded	100	10 X 100
	VC02C009PBS114	9mm	Pre Slit	NO	Bonded	100	10 X 100
	VC02C109PBS124	9mm	Non Slit	YES	Bonded	100	10 X 100
	VC02C109PBS114	9mm	Pre Slit	YES	Bonded	100	10 X 100
	VC02C109PBS113	9mm	Pre Slit	YES	Bonded	100	10 X 100
11mm Crimp	VC02C011ASC021	11mm	Non Slit	NO	Non Bonded	100	10 X 100
	VC02C011ASC022	11mm	Pre Slit	NO	Non Bonded	100	10 X 100
	VC02C111ASC021	11mm	Non Slit	YES	Non Bonded	100	10 X 100
	VC02C111ASC022	11mm	Pre Slit	YES	Non Bonded	100	10 X 100

Top **Amber** Vials made from Borosilicate USP Type I 54-Expansion glass with Closure

	Product Code	Neck Dia	Septa Feature 1	Graduation with write on patch	Septa Feature 2	Pack Size	Case Lot
9mm Screw	VC02A009PBS124	9mm	Non Slit	NO	Bonded	100	10 X 100
	VC02A009PBS114	9mm	Pre Slit	NO	Bonded	100	10 X 100
	VC02A109PBS124	9mm	Non Slit	YES	Bonded	100	10 X 100
	VC02A109PBS114	9mm	Pre Slit	YES	Bonded	100	10 X 100
	VC02A109PBS113	9mm	Pre Slit	YES	Bonded	100	10 X 100
11mm Crimp	VC02A011ASC021	11mm	Non Slit	NO	Non Bonded	100	10 X 100
	VC02A011ASC022	11mm	Pre Slit	NO	Non Bonded	100	10 X 100
	VC02A111ASC021	11mm	Non Slit	YES	Non Bonded	100	10 X 100
	VC02A111ASC022	11mm	Pre Slit	YES	Non Bonded	100	10 X 100

2ml HPLC Treated Vials / Closure / Kit

Treated 3.3 expansion Borosilicate Type I glass vials with **high silicon content** and **ultra-low alkali levels** help reduce the risk of leaching from the glass surface.

Reduce the **Risk of leaching** from glass vials

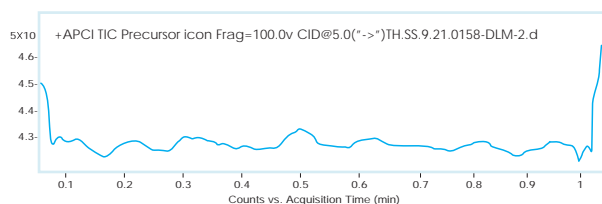


Leak-proof, ultra-pure certified **PTFE-Silicone septa**

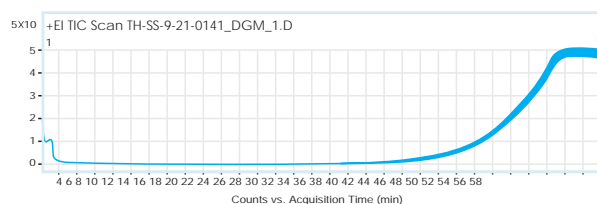
Chemically inert glass for sensitive analytical applications

Lowest leaching characteristics glass vials

LCMS-MS CHROMATOGRAM

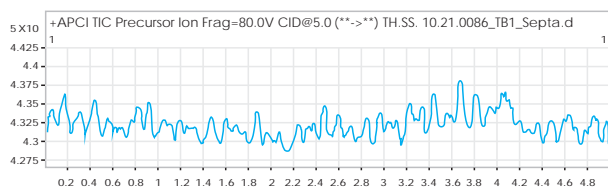


GCMS CHROMATOGRAM

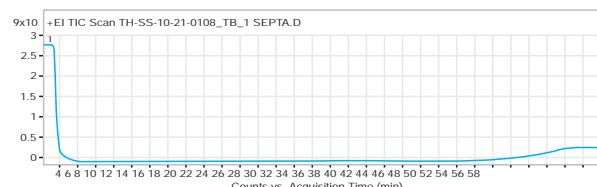


Lowest leaching characteristics septa

LCMS-MS CHROMATOGRAM



GCMS CHROMATOGRAM



Test	Parameters	Results
Dimensional	Total Height	✓
	Inner Neck Diameter	✓
	External Thread Diameter	✓
	Body Diameter	✓

Product Code	Neck Dia	Septa Feature 1	Graduation with write on patch	Septa Feature 2	Pack Size	Case Lot
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9mm Screw Top Clear Vials made from Borosilicate USP Type I, ASTM Class A 33-Expansion glass with Closure Blue PP Cap Ultra Pure Certified PTFE-Silicone Septa

VC02C409PBSUM1	9mm	Pre Slit	YES	Bonded	100	10 X 100
VC02C409PBSUM2	9mm	Non Slit	YES	Bonded	100	10 X 100

9mm Screw Top Clear Vials made from Borosilicate USP Type I, ASTM Class A 33-Expansion glass with Closure Blue PP Cap High Purity PTFE-Silicone Septa

VC02C409PBS113	9mm	Pre Slit	YES	Bonded	100	10 X 100
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Product Code	Neck Dia	Septa Feature 1	Graduation with write on patch	Septa Feature 2	Pack Size	Case Lot
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9mm Screw Top Clear Vials made from Borosilicate USP Type I, ASTM Class A Treated 33-Expansion glass with Closure Blue PP Cap Ultra Pure Certified PTFE-Silicone Septa

VC02C409PBSUM1T	9mm	Pre Slit	YES	Bonded	100	10 X 100
VC02C409PBSUM2T	9mm	Non Slit	YES	Bonded	100	10 X 100



Pharmaceutical Industry



Research & Development Laboratories



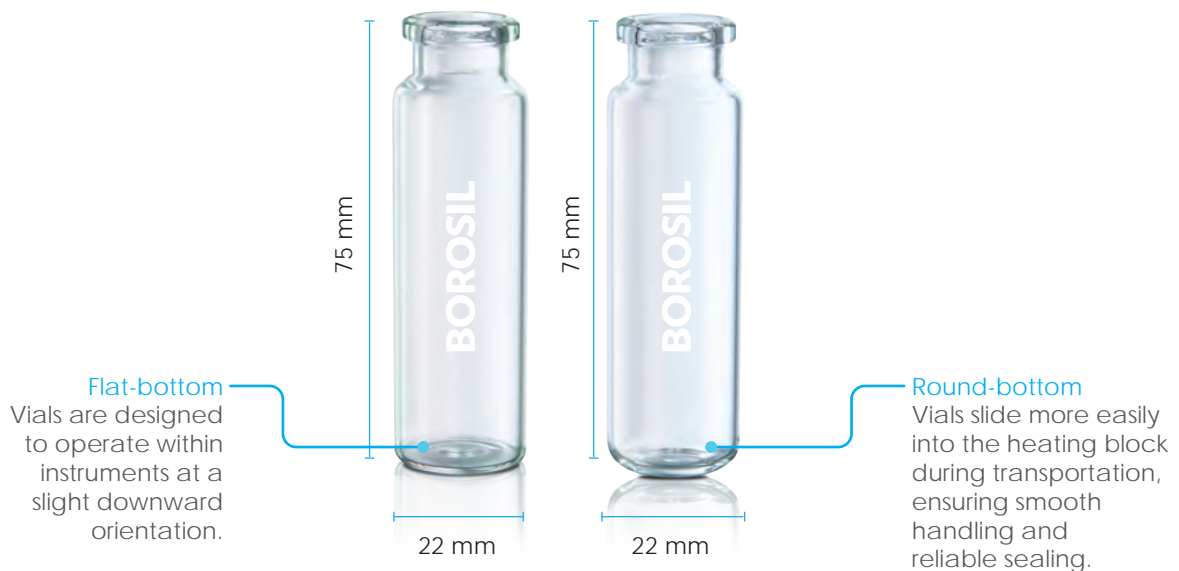
Biopharmaceutical Industry



Food & Beverage Industry

20ml

Certified GC Headspace Vials / Closure / Kit



Aluminium Crimp Seals Closures



- Sealing Test
- Penetration Test
- Evaporation Test



Product Code	Neck Dia	Septa Feature 1	Graduation with write on patch	Septa Feature 2	Pack Size	Case Lot
20mm Crimp Top Clear Vials made from Borosilicate USP Type I 49-Expansion glass with Closure Silver Aluminium Crimp PTFE-Silicone Septa						
VC20R120ASC041	20mm	Non Slit	YES	Non Bonded	100	5 X 100
VC20F120ASC041	20mm	Non Slit	YES	Non Bonded	100	5 X 100

40ml EPA / TOC COMBIPACK Vials / Closure / Kit

Ultra-pure, screw-top open vials certified for TOC applications with <10 ppb levels.



Ultra pure screw open top

BOROSIL [®] Borosil Limited <small>(Formerly known as Ingersoll India Pvt. Ltd.) CIN: U58904GJ2019PLC200222 Registered & Corporate Office: 100, Convent Road, VCA Club, Indira Park Complex, Bandra (E), Mumbai - 400 050, India. T: +91 22 6962 6300 F: +91 22 6962 6314 E: borosil@borosil.com W: www.borosil.com</small>	
Certificate of Analysis	
Product Code	VC40C124POS111
Description	40ml Screw Neck Clear Glass Vial with Pre-assembled Silicone-PTFE Bonded Protective Open Top Cap
TOC Level*	<10 ppb
*Based on APHA (23rd Edition) 5310 B - 2017 Method	
Specifications & Description :	
Borosil vials are manufactured from Type I Borosilicate glass as specified by EU & US Pharmacopoeia, chemically highly resistant glass. Critical dimensions are 100% inspected by optical & electrical test methods. Random samples are checked for cosmetic defects and finish. Low bleed silicone-PTFE bonded protective open top cap.	
Parameter Measured	Result
Vial total height	Complies
Inner neck diameter	Complies
External thread diameter	Complies
Body diameter	Complies
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Glass vials with closures (COMBIPACK)

Product Code	Neck Dia	Vial Colour	Septa Feature 1	Graduation with write on patch	Neck Dia	Special Feature 1	Pack Size	Case Lot	List Price 23-24
VC40C124POS111	24mm	Clear	Non Slit	YES	Silicone PTFE	Non Bonded	72	1 X 72	On Request
VC40A124POS111	24mm	Amber	Non Slit	YES	Silicone PTFE	Non Bonded	72	1 X 72	On Request

Customized sizes are available on request



CIN : U74999MH1991PLC061851

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