



Chromacol Product Guide

Chromacol Storage Vials.

Product Applications

Dram Vials

For general storage applications these dram vials take caps with standard GPI threads. Both injection caps with piercable seals and solid PTFE lined storage caps may be supplied separately or as part of convenience packs. The vials are Class 1 hydrolytic extraction neutral borosilicate glass to give assurance of sample stability and low extraction. Most configurations are also supplied in amber glass with similar hydrolytic activity.

Additional Features

When using in automated storage systems the vials may be supplied with pre-applied labels to your specification.



High Recovery Dram Vial



This vial while conforming to the standard 15mm x 46mm profile has a precisely contoured reservoir with controlled depth allowing maximum extraction of liquid samples.

This gives the ability to concentrate and extract samples from the same vial with a residual volume of less than 15µL

Powder Vials

For dry powder weighing and dispensing the walls of these vials are free of neck constrictions and traps. The external custom 14mm thread takes a white polypropylene cap that is compatible with most robotic transfer systems.

Two versions are available with nominal volume of 5mL and 7mL with a 14mm od.



Universal Vials

For less stringent storage tasks vials manufactured from Type III glass may be specified. This range of vials takes R3 caps that may be supplied separately or as a complete unit.

Caps

GPI finish Solid storage caps are white polypropylene with a mounted PTFE liner.

GPI Injection caps are black with PTFE lined silicone rubber injection seal..

R3 Caps are White polypropylene, unlined

14mm Powder Vials take a polypropylene unlined cap.



EPA Type Vials

For water samples and for environmental testing 20mL and 40mL EPA pattern vials are available with both injection and solid storage caps. These vials are to the same external size as other EPA pattern vials but in this form are supplied in separate packaging.



Combination Packs

Common combinations of vials and closures can be ordered together for greater convenience and assured fit.



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Dram Vials GPI Thread

Part	Nominal Volume	Od(mm)	Ht(mm)	Screw(mm)	Description
2-SV	2ml	12	32	8	0.5 dram vial with 8.425 screw neck
2-SV(A)	2ml	12	32	8	0.5 dram vial amber with 8.425 screw neck
3.5-HRSV	3.5mL	15	45	13	1dram high recovery vial with 13-425 screw neck
4-SV	4ml	15	45	13	1dram vial with 13-425 screw neck
4-SV(A)	4ml	15	45	13	1dram vial-amber with 13-425 screw neck
8-SV	8ml	17	60	15	2dram vial with 15-425 screw neck
8-SV(A)	8ml	17	60	15	2dram vial-amber with 15-425 screw neck
12-SV	12ml	19	65	15	3dram vial with 15-425 screw neck
12-SV(A)	12ml	19	65	15	3dram vial-amber with 15-425 screw neck
16-SV	16ml	21	70	18	4dram vial with 18-425 screw neck
16-SV(A)	16ml	21	70	18	4dram vial-amber with 18-425 screw neck
22-SV	22ml	23	85	20	6dram vial with 20-425 screw neck
40-SV	40ml	28	95	24	8dram vial with 24-414 screw neck
40-SV(A)	40ml	28	95	24	8dram vial with 24-414 screw neck

Powder vials

Part	Nominal Volume	Od(mm)	Ht(mm)	Screw(mm)	Description
5.3-SV	5.3mL	15	48	14	5mL powder vial with 14mm custom external thread
6.7-SV	6.7mL	15	70	14	7mL powder vial with 14mm custom external thread

Universal vials R3 Thread

Part	Nominal Volume	Od(mm)	Ht(mm)	Screw(mm)	Description
5-USV	5ml	16	49.5	18	5mL universal vial with 18mm R3 screw neck
10-USV	10mL	16	96	18	10mL Universal vial with 18mm R3 screw neck
20-USV	20mL	28	48	22	20mL Universal Vial with 22mm R3 screw neck.
30-USV	30mL	28	83	22	30ml Universal vial with 22mm R3 screw neck

EPA Pattern Vials

Part	Nominal Volume	Od(mm)	Ht(mm)	Screw(mm)	Description
20-EPASV	20mL	28	57	24	EPA clear vial 20mL
20-EPASV(A)	20mL	28	57	24	EPA amber vial 20mL
40-EPASV	40mL	28	96	24	EPA clear vial 40mL
40-EPASV(A)	40mL	28	96	24	EPA amber vial 40mL

Screw Caps

Part	GPI Finish	Part	GPI Finish	Part	Finish
8-SCST	8-425 Storage	8-SC-ST15	8-425 Injection	8-SCS	8-425 Solid Cap Black
13-SCST	13-425 Storage	13-SC-ST15	13-425 Injection	12-SCS	12mm Solid Cap Black
15-SCST	15-425 Storage	15-SC-ST3	15-425 Injection	14-SCS	Custom 14mm White
18-SCST	18-425 Storage	18-SC-ST3	18-425 Injection	18-SCS	R3 PP Solid Cap White
20-SCST	20-425 Storage	20-SC-ST3	20-425 Injection	22-SCS	R3 PP Solid Cap White
24-SCST	24-414 Storage	24-SC-ST3	24-414 Injection		

Storage Combination Packs

Part	Vial	Cap	Pack
8-SV-CP	8-SV	15-SCST	200
12-SV-CP	12-SV	15-SCST	200
16-SV-CP	16-SV	18-SCST	200
22-SV-CP	22-SV	20-SCST	200
8-SV(A)-CP	8-SV(A)	15-SCST	200
12-SV(A)-CP	12-SV(A)	15-SCST	200
16-SV(A)-CP	16-SV(A)	18-SCST	200

Injection Combination Packs

Part	Vial	Cap	Septum	Pack
8-SVST-CP	8-SV	15-SC	15-ST3	200
12-SVST-CP	12-SV	15-SC	15-ST3	200
16-SVST-CP	16-SV	18-SC	18-ST3	200
22-SVST-CP	22-SV	20-SC	20-ST3	200
8-SV(A)ST-CP	8-SV(A)	15-SC	15-ST3	200
12-SV(A)ST-CP	12-SV(A)	15-SC	15-ST3	200
16-SV(A)ST-CP	16-SV(A)	18-SC	18-ST3	200



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Environmental Testing

Level-300 Cleaning and Certified:

These containers are processed and packaged under a registered ISO Quality Management System. The containers are laboratory certified to meet U.S. EPA SuperFund Standards in accordance with the latest edition of EPA's "Specifications and Guidance for Contaminant-Free Sample Containers". The QA level C of A is backed by third party generated validatable laboratory data, and provides complete traceability through the production process. Every case of QA level product contains a C of A and is custody sealed to ensure reliable chain-of-custody.

Level 200 Cleaning

These containers are processed and packaged under a strict registered ISO Quality Management System in the same manner as QA level products; however, PC level products are not certified. Every case of product is labeled with its production number and is custody sealed to ensure reliable chain-of-custody.

Two sizes available in clear or amber neutral glass.

Standard 28mm od with heights of 57mm (20mL) and 95mm (40mL)

Glass that meets ASTM Type I Class A and USP Type I standards

Caps and seals manufactured from high purity polypropylene with silicone/PTFE injection septa or a PTFE lined solid storage cap.

Vials, caps and septa pre-assembled to reduce possible contamination.



TOC Vials

Chromacol is currently offering the only low-level certified vials in the market for Total Organic Carbon testing and sampling.

Major TOC instrument manufacturers use and recommend these vials when analysis of low levels of TOC requires low background level assurance.

Each lot of vials is tested and certified to contribute less than 10ppb TOC as background or for less stringent applications the 20ppb TOC version.

The Certificate of Analysis is included with lot production numbers.

EPA

Part Number	Nominal Volume	od	ht	Screw	Description
20-EPAVCS	20mL	28	57	24	EPA Clear Vial Kit 100 Class 20mL Vial/Septa/Cap Assembly
20-EPAVCS(A)	20mL	28	57	24	EPA Amber Vial Kit 100 Class 20mL Vial/Septa/Cap Assembly
20-EPAVCS-PC	20mL	28	57	24	EPA Clear Vial Kit 200 Class 20mL Vial/Septa/Cap Assembly
20-EPAVCS-PC3	20mL	28	57	24	EPA Clear Vial Kit 300 Class 20mL Vial/Septa/Cap Assembly
40-EPAVCS	40mL	28	96	24	EPA Clear Vial Kit 100 Class 40mL Vial/Septa/Cap Assembly
40-EPAVCS(A)	40mL	28	96	24	EPA Amber Vial Kit 100 Class 40mL Vial/Septa/Cap Assembly
40-EPAVCS-PC	40mL	28	96	24	EPA Clear Vial Kit 200 Class 40mL Vial/Septa/Cap Assembly
40-EPAVCS(A)-PC	40mL	28	96	24	EPA Amber Vial Kit 200 Class 40mL Vial/Septa/Cap Assembly
40-EPAVCS-PC3	40mL	28	96	24	EPA Clear Vial Kit 300 Class 40mL Vial/Septa/Cap Assembly
40-EPAVCS(A)-PC3	40mL	28	96	24	EPA Amber Vial Kit 300 Class 40mL Vial/Septa/Cap Assembly

TOC

Part Number	Nominal Volume	od	ht	Screw	Description
40-TOCSV-10	40ml	28	96	24	TOC Clear vial with cap cover, open top cap TOC 10ppb-Pk 72
40-TOCSV-20	40mL	28	96	24	TOC Clear vial with cap cover, open top cap TOC 20ppb Pk-72



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Compound Storage

Vials are pre-printed with a unique code. The code is machine-readable and can be downloaded into database and sample handling software.

2D Coded Etched Vials

Why are they used?

2D codes are used because the amount of information carried by the code is as great as a linear code of many times the length.

Datamatrix coding is used as standard with a number of reading systems and scanners.

Vials may be read singly or an array of tubes may be logged using a bottom reading scanner.

In almost all cases it is possible to give a permanent marking directly onto the glass surface that is not affected by moisture, heat or solvent attack. By utilizing the correct 2D label size and resolution much more data can be included than is possible with even high-resolution linear 1D codes.



Linear Pre-Applied Labels



Most Chromacol Glass Vials may be pre-labeled with a variety of barcode symbologies, including Code 128, Code 39 and Interleaved 2 of 5. Vials with volumes of <1mL to >40mL may be labeled.

Label Specifications

Labels are selected to give resistance to commonly used solvents and chemicals including DMSO and Xylene.

Adhesives are selected to give a very high level of attachment with minimal edge lift.

The labels are resistant to high levels of humidity and low temperatures found in cooled sample storage units.

Etched Linear Labels

For the ultimate in chemical and physical resistance the linear code of choice may be also be permanently etched onto the vial. With high contrast background high levels of readability and error checking is found.

These can be specified for Dram and Powder Storage Vials

(2D base labels are not available on the 3.5-HRSV)

Special Dual Labels

Linear and 2D Datamatrix matched etched codes are available on the 4mL Dram Vials and 2mL 0.5 Dram vials.



Part	Nominal Volume	Od (mm)	Ht (mm)	Screw (mm)	Description
2-SV-BC-1L	2ml	12	32	8	0.5 dram vial with specified etched linear barcode
2-SV-BC-DM	2ml	12	32	8	0.5 dram vial with specified etched 2D datamatrix code
2-SV-BC-DM2	2ml	12	32	8	0.5 dram vial with specified etched 2D datamatrix code and matched 2D datamatrix code.
4-SV-BC-1L	4ml	15	45	13	1dram vial with specified etched linear barcode
4-SV-BC-DM	4ml	15	45	13	1dram vial-with specified etched 2D datamatrix code
4-SV-BC-DM2	4ml	15	45	13	1dram vial with specified etched linear and matched 2D datamatrix code.

Ordering

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