

Chromacol Product Compound Storage

Storage of Chemical Samples

- Most Chromacol products are used in the analytical laboratory for chemical analysis utilizing chromatographic techniques such as HPLC and GC.
- These laboratories also have a requirement to store and archive research and reference materials that are used for the standardization of assays or are to be used as internal and reference standards.
- In larger organizations this function has become more centralized with the chemicals being held in a central store. The operation of such stores requires that samples be entered or extracted from the store without them being damaged or being delivered to the wrong laboratory.
- Dry samples have to be removed and transferred without loss to a wide variety of different plates vials and arrays.



5.3-SV

Powder Vials

- The Chromacol vials 5.3-SV and 6.7-SV are designed for solid compound storage in automated storage and weighing systems.
- The vials have an external thread with minimal shoulder that allows dry powders to be easily removed by automated pickers and robots.
- Manual extraction is aided by the wide opening giving access to spatulas and probes.
- Solid storage caps compatible with automated systems are applied during storage and transport.



6.7-SV

Features

- Glass is Neutral Borosilicate USP/EP Type 1 Hydrolytic extraction.
- Special thread compatible with TAP Haystack™ storage units

Benefits

- Glass is recommended for dry powder storage due to its chemical inertness, low static electricity potential and good sample visibility.

Dedicated Caps

- Boreseal Cap for sealing without O-ring or Elastomeric wads to prevent long term chemical leaching.
- High purity polypropylene (white or high clarity versions)
- Cap compatible with robotic storage systems giving gripping below cap.
- Central locator in cap for precise positioning in transfer systems.



14-SCS

Automation

- For most effective use the identification of each vial should be ensured by a unique identification i.d. This is usually supplied by a sequentially assigned number encoded as a linear barcode, which may be read by scanners within the storage systems.



Product Briefing

Barcode Information

- Chromacol Powder Vials may be pre-labelled with a variety of barcode symbologies, including Code 128, Code 39 and Interleaved 2 of 5.
- All numbers are guaranteed non-duplicate.
- These labels are 360° readable.

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.
- Labels are formed from resistant polymeric films.



5.3-SV-BC-SY

Custom Labels.

- In addition to the required symbology the labels may be supplied with additional information such as company information, logo or hazard information.
- The digital printing methods are able to produce coloured logos, print and key colour patches.

Packaging.

- Divided trays for individual vial placement.
- 187 units per tray in 11 x 17 array.
- Trays covered with fitted lids.



A selection of Chromacol labelled vials.

Ordering

Chromacol Part Number	Description	Pack Size
5.3-SV	5mL powder vial-clear	187
6.7-SV	7mL powder vial-clear	187
5.3-SV-BC-xx	5mL powder vial-clear with pre-applied barcode label to customer specification	187
6.7-SV-BC-xx	7mL powder vial-clear with pre-applied barcode label to customer specification	187
14-SCS	Polypropylene storage cap-white-for 5.3-SV and 6.7-SV powder vials	1000



Barcode Capability Briefing

Unique Identification

Coded Glass Vials for Chromatography and Sample Storage

What are they?

- Vials are pre-printed with a unique code. The code is machine-readable and can be downloaded into database and sample handling software.
- The vials may be marked on the base or the side. It may be specified to coincide with reader heights and required resolution

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.

Features: -

- Direct etching onto the vial means that there is assurance of traceability, the label cannot be removed or distorted.

Benefits

- No need to apply fiddly labels in the laboratory.
- No source of contamination from handling or adhesive.
- Vials supplied are pre-etched with a number sequence. This can be either a standard number sequence or a sequence of the customer's choice.

Packaging

- Vials are supplied pre-packed in trays with clean packaging.
- Pre-inserted 96-well vials are supplied as single units.
- Custom vials may also be produced to order with a set minimum order.





Barcode Capability Briefing

Unique Identification

Labelled Glass Vials for Chromatography and Compound Storage

Additional Information

- Most Chromacol Glass Vials may be pre-labelled 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 labelled.

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.
- Labels are formed from resistant polymeric films.

Custom Labels

- In addition to the required symbology the labels may be supplied with additional information such as company information, logo or hazard information.
- The digital printing methods are able to produce coloured logos, print and key colour patches as shown.



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Chromacol Product Brief

Chromacol Product Traceability

2D Coded Vials

Permanent identification of the vial and its contents may be assured by the use of 2D datamatrix coding directly etched into a patch applied onto any glass vial produced by Chromacol.

The code can contain information such as Manufacturer details and a unique serial number as the 2D coding can contain much more information than conventional 1D linear codes.

While most linear barcodes are limited to 6-9 digits when used on small autosampler vials it is possible to etch onto the base of vials as small as 8mm in diameter

The 2mL vial has a 12 x 12 code giving 10 digits or 6 letter combinations. With smaller high resolution marking similar data can be applied onto vials which can be mounted in 96-well tray format.



With the flat base of the majority of autosampler vials available for marking the placement in a bottom-reading tray allows individual tubes within the rack to be identified independently of position. The use of bottom read scanners allows the vials to be tracked without removal from the rack.

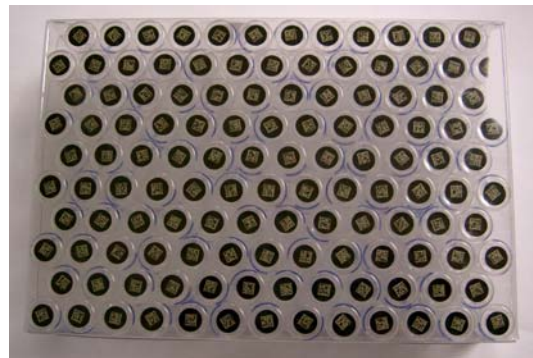
Larger vials may also be marked with a considerable amount of data yet leaving the main part of the vial clear and unrestricted by labels or marking patches.

It is possible to mark on the side of vials, an example is shown of an etched mark made onto the normal write-on patch of a 2mL vial. In this case



care has to be taken not to extend the label too far as distortion can occur at the edge of the square code.

In this case the code can be read. In most cases it is advisable to keep the overall dimensions to 25% of diameter.























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



Chromacol Product Brief

2D Code Dimensions for different point resolutions

Symbol Size <i>Row x Column</i>	Data Capacity		5 mil Examples	7.5 mil Example
	Numeric	Alphanumeric		
10 x 10	6	3	 1.27 mm	 1.90 mm
12 x 12	10	6	 1.52 mm	 2.29 mm
14 x 14	16	10	 1.78 mm	 2.67 mm
16 x 16	24	16	 2.03 mm	 3.05 mm
18 x 18	36	25	 2.29 mm	 3.43 mm
20 x 20	44	31	 2.54 mm	 3.81 mm
22 x 22	60	43	 2.79 mm	 4.19 mm
24 x 24	72	52	 3.05 mm	 4.57 mm
26 x 26	88	64	 3.30 mm	 4.95 mm
32 x 32	124	91	 4.06 mm	 6.10 mm

Ordering

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Custom Barcode Order Form

Custom Barcode Products .

Chromacol Vial	<input type="checkbox"/>
Part Number	<input type="text"/>
Other Vials	<input type="checkbox"/>
Outer Diameter	<input type="text"/>
Height	<input type="text"/>
Finish	<input type="text"/>
Type of Barcode required	<input type="checkbox"/>
Linear Code	<input type="text"/>
2D Code	<input type="text"/>
Dual Code	<input type="text"/>
Adhesive label	<input type="checkbox"/>
	<input type="text"/>
Etched	<input type="checkbox"/>
	<input type="text"/>
Symbology	<input type="checkbox"/>
Number	<input type="text"/>
Alphanumeric	<input type="text"/>
Number Range	<input type="checkbox"/>
Start	<input type="text"/>
Finish	<input type="text"/>
Quantity Required	<input type="checkbox"/>
	<input type="text"/>

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