



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.

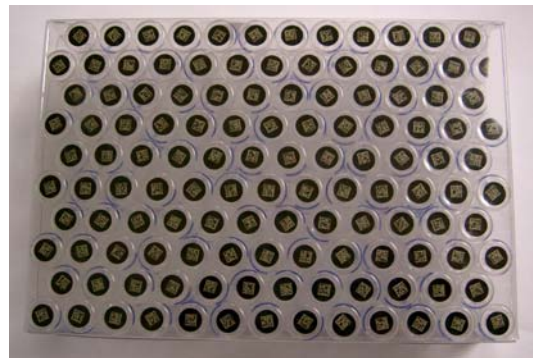
Larger vials may also be marked with a considerable amount of data yet leaving the main part of the vial clear and unrestricted by labels or marking patches.

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



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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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