

# Center Drain (CD™) Vials



E000998

The Center Draining or CD Vial has a unique conical interior bottom that promotes draining of the vial's contents into the center bottom of the vial, where virtually all of it can be extracted. The production process ensures consistency of quality and precision in the CD Vials. The conical well, located in the exact center of the vial

## Applications

- Library sample storage
- Lyophilization
- Centrifugation
- Micro mixing
- Extraction
- Concentrations
- Derivatization
- Hybridization
- Anaerobic Reactions
- Homogenization
- Small scale reactions
- Radiosynthesis
- Catalytic hydrogenation

bottom, features a smooth transition from sidewall into the well, and the bottom thickness dimension is the same in each vial.

In comparison tests against other manufacturers' conical high-recovery vials, the CD Vial allows maximum extraction (<4  $\mu$ L dead volume), while the competitors' vials allow the contents to hang up in the transition

area, leaving several microliters of liquid still in the vials after extraction. As shown in Figure 1, there is a significant amount of sample remaining in the competitor's vial on the right, while the CD Vial has yielded almost total recovery of the liquid in the vial.

## Features and benefits:

- Limited volume injections with less than 4  $\mu$ L dead volume
- Eliminates bent needle problem associated with limited volume inserts
- Will withstand temperatures from -70 °C to 160 °C
- Concentrate samples in the same vial that you use in autosampler
- Solid glass base offers better heat sink for concentrating samples
- Made from Type 1 Borosilicate glass

Figure 1. Superior Sample Extraction from CD Vial Compared to Competitor Vial



CD Vial

High Recovery Vial

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## + Featured Products

Certified Center Drain CD Vials  
12 x 32 mm, 1.5 mL, large opening, Pk/100

Description	Cat. No.
<b>Screw top vial kits with blue cap and septa, 9 mm thread</b>	
Clear glass, PTFE/silicone septa	29307-U
Clear glass, PTFE/silicone/PTFE septa	29308-U
Clear glass, pre-slit PTFE/silicone septa	29309-U
Amber glass, PTFE/silicone/PTFE septa	29313-U
Amber glass, pre-slit PTFE/silicone septa	29314-U
<b>Snap Top kits with caps and septa</b>	
Clear glass, blue cap with PTFE septa	29301-U
Clear glass, blue cap with PTFE/silicone septa	29302-U
Clear glass, blue cap with pre-slit PTFE/silicone septa	29303-U
<b>Crimp top vials (vial only)</b>	
Clear glass	29298-U

## ! Related Information

Sigma-Aldrich offers a variety of CD vial products. For help with product selection, email Sigma-Aldrich Technical Service at [techservice@sial.com](mailto:techservice@sial.com)

**TRADEMARKS:** Ascentis, CHIROBIOTIC, CHROMASOLV, Equity, HybridSPE, OMI, Radiello, SLB, SPB, Supelcarb, Supelpure – Sigma-Aldrich Biotechnology LP; CD – QIS, Inc.; Fused-Core – Advanced Materials Technology; Hamilton – Hamilton Co.; PEEK – Upchurch Scientific, Inc.; Super Clean – Scientific Glass Technology; Swagelok – Swagelok Co.; Toyoparl, TSK-GEL – Tosoh Corp.; Waters – Waters Associates, Inc.

SPME (Solid Phase Microextraction) - Technology licensed exclusively to Supelco. US patent #5,691,206. European patent #523,092

ordering: 800-247-6628 (us only) / 814-359-3441 technical service: 800-359-3041 (US and Canada only) / 814-359-3041

Accessories

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