

Dry Loading Vessels

Improve purification results with higher sample loads

One of the most common flash purification challenges is dealing with hard-to-dissolve crude samples. Because polar solvents cause poor chromatographic results when used as injection solvents in normal-phase flash chromatography, other sample load options are needed.

A commonly used option is dry loading, which involves dissolving the sample in a suitable solvent, mixing with an inert, clean, dry adsorbent, such as silica, alumina, or diatomaceous earth, and drying the slurry. The dried sample is then loaded into an empty vessel and inserted ahead of the purification cartridge. By drying the mixture, the polar solvent is removed and will have no impact on the purification.

Biotage external Dry Load Vessels (DLV)

Biotage SNAP and Flash+ cartridges have provided the ability the dry load within the flash but sometimes the amount of adsorbent needed exceed the internal capacity. When that situation arises, the new Biotage DLV offering provides a solution.

The Biotage DLV offering includes three capacity ranges – 1 to 30g (DLV-030), 10 to 70g (DLV-070), and 50 to 500g (DLV-500). The DLV-030 holds up to 30g of adsorbent and is typically used with cartridges up to 120g. The DLV-070 (70g capacity) is useful with cartridges up to 400g while the DLV-500 (500g capacity) is used with the large purification cartridges (750g+). All Biotage DLV products can be used with Isolera systems.

Safe and simple to use

Biotage DLV products are mounted on Isolera systems by use of a cartridge holder that can be mounted directly above the purification cartridge. The DLV barrels are designed with a Luer outlets for simple attachment to Biotage SNAP cartridges and other Luer inlet cartridges and hold pressures > 100 psi (7 bar). An adjustable plunger provides a zero dead volume, high pressure seal ensuring user safety.



Figure 1. A DLV-030 attached to a SNAP flash cartridge



Figure 2. A DLV-500 mounted on an Isolera LS system

Ordering Information

Part number	Description
DLV-030	DLV-030 kit with 20 fritted 30g barrels, 20 top frits, cartridge holder, and plunger
DLV-070	DLV-070 kit with 20 fritted 70g barrels, 20 top frits, cartridge holder, and plunger
DLV-500	DLV-500 kit with 1 fritted barrel, 1 top frit, barrel housing, plunger, fittings and connecting tubing
DLV-035	Replacement 30g fritted barrels with top frits, 20/pk
DLV-075	Replacement 70g fritted barrels with top frits, 20/pk
DLV-505	Replacement 500g fritted barrels with top frits and o-rings, 4/pk

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