

## VersaFlash™ Solid Sample Cartridges

Cat. Nos. 97738-U, 97746-U, 97747-U

Solid Sample Cartridges are used to pre-adsorb low solubility samples onto a media which can then be packed into the Solid Sample Cartridge and desorbed onto the separation cartridge in the VersaFlash station.

### The Solid Sample Cartridge Starter Kit (Cat. No. 97738-U) consists of:

- Six 40 x 37.5mm Solid Sample Cartridges (pre-sealed with one end-fitting and frit)
- Six 40 x 75mm Solid Sample Cartridges (pre-sealed with one end-fitting and frit)
- 12 end-fittings
- 12 polyethylene frits



The Solid Sample Cartridge replacement cartridges come in small (40 x 37.5mm) or large (40 x 75mm) sizes packaged 12 per pack (with 12 frits and end-fittings).

### Ordering Information

Description	Cat. No.
Solid Sample Cartridge Kit .....	97738-U
Small Solid Sample Cartridges, pk. of 12 .....	97746-U
Large Solid Sample Cartridges, pk. of 12 .....	97747-U
Flash Silica, dried, 100g .....	97728-U
Flash Silica, dried, 1Kg .....	97729-U
Flash C18 Silica, 100g .....	97727-U

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## Loading a Solid Sample Cartridge

If the sample material exhibits low solubility in the mobile phase to be used in the flash purification, it may be necessary to apply the sample through the use of a Solid Sample Cartridge using the following procedure.

- Adsorb the sample material onto a solid support media such as silica or celite. The media is then dried *in vacuo* along with the adsorbed sample material.
- Pour a desired volume of adsorbed media into the appropriate size Solid Sample Cartridge.
- Once the desired volume of adsorbed media is in the Solid Sample Cartridge, backfill to the fill line with non-adsorbed packing media such as celite. Periodically tap the bottom of the cartridge gently on a hard surface to settle the packing material without voids. This will help insure a uniformly packed cartridge leading to proper desorption.
- Place a frit (smooth side up) onto the open end of the Solid Sample Cartridge and slide the frit carefully down into the cartridge.
- When the frit is securely held inside the opening of the cartridge, place the inlet end-fitting over the frit so that the O-ring on the fitting is in contact with the sides of the cartridge and place in the VersaFlash station as shown in Figure e.
- Turn the VersaFlash handle to the idle position with it pushed in. Lower the Upper Platen so that it is resting on top of the end-fitting to be pressed into the solid sample cartridge, and tighten the securing knob.
- Turn the handle 180 degrees to the **Operate** position. The lower platen will rise, securing the top end-fitting in place. If the end-fitting does not push in completely (flush with the frit), repeat steps f) and g) until it is completely seated in the cartridge. The Solid Sample Cartridge is now fully assembled.
- Return the handle to the idle position and pull it out. Invert the Solid Sample Cartridge and it is now ready to use. Place a VersaPak cartridge on top of the Solid Sample Cartridge, using the Cartridge Stacking Assembly.

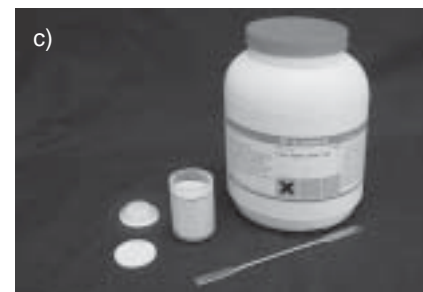


Trademarks: VersaFlash, VersaPak, Sigma-Aldrich Co.

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