

Supel™ Flash Cartridges

Supel Flash cartridges are pre-compressed, disposable flash columns containing ultrapure silica or bonded phase sorbents, designed to meet your stringent flash purification requirements. Cartridge pre-compression reduces particle interstitial spacing to provide even mass transfer and balanced chemical interaction.

Features Include:

- Higher efficiency leading to sharper more symmetric peaks
- No fronting, doubling or overlapping peaks
- High yield and sample loading capacity
- No compound decomposition
- Reliable, consistent purification performance

Supel Flash Cartridges are Designed For Use in:

ISCO's CombiFlash™, Companion™, Retrieve™, and OptiX™ systems;
Analogix's SimpliFlash™ and IntelliFlash™ and Biotage™ systems.

Sample Loading

Sample loading can be challenging at times due to the wide range of sample types that can be encountered in flash chromatography. There are multiple ways that a sample can be loaded onto the Supel Flash cartridge:

1. Direct injection into the sample injector assembly mounted on top of the flash system (on-line)
2. Direct syringe injection onto the cartridge. (off-line)
3. Using a solid sample cartridge prior to the primary cartridge (on-line)

Cartridge Storage

Cartridges should always be stored in sealed shipping bags. Removing them from the bags may lead to moisture adsorption, which in turn could lead to changes in performance. Store multiple-use C18 cartridges in a non-buffered neutral medium containing at least 5% organic solvent (THF is not recommended).

Cartridge Disposal

Cartridges should be disposed of properly, using the following method:

1. Flush out the residual solvent by applying a pressurized air source.
2. Cap the ends and dispose of the cartridges in an appropriate container.

Supel Flash Cartridge Specifications

- Description: Single-use silica or multi-use end-capped C18 (26% carbon) columns for low-pressure purification.
- Cartridge Housing: Low extractable polypropylene
- Frit: Low extractable polyethylene
- Solvent Compatibility: Resistant to normal and reversed phase solvents when used under typical flash chromatography operating conditions (temperature, pressure and exposure time).

Loading Capacity, Flow Rate Range, and Dimension

Column Size	4 g	12 g	25 g	40 g	80 g	120 g	240 g	330 g
Sample Size	4-400 mg	12 mg-1.2 g	25 mg-2.5 g	40 mg-4 g	80 mg-8 g	0.12-12 g	0.24 -24 g	0.33-33 g
Flow Rate mL/min.	15-20	20-40	25-50	30-60	40-80	60-120	70-180	80-180
Dimension (I.D. x Length) mm x mm	16 x 100	23 x 120	25 x 140	30 x 230	37 x 230	40 x 260	65 x 200	65 x 265

Luer endfittings, compatible with all purification systems.

- Packing Material Support: Irregular normal phase silica (40-60 micron particle size, 60 angstrom pore size). Recommended pH range for silica packing materials is pH 2-8.
- Maximum Pressure: 50 psi

Ordering Information

Description	Pkg. Size	Cat. No.
Supel Flash Cartridge, 4 g, 40-60 µm silica	20	FCISI004
Supel Flash Cartridge, 12 g, 40-60 µm silica	20	FCISI012
Supel Flash Cartridge, 25 g, 40-60 µm silica	15	FCISI025
Supel Flash Cartridge, 40 g, 40-60 µm silica	15	FCISI040
Supel Flash Cartridge, 80 g, 40-60 µm silica	12	FCISI080
Supel Flash Cartridge, 120 g, 40-60 µm silica	10	FCISI120
Supel Flash Cartridge, 240 g, 40-60 µm silica	4	FCISI240
Supel Flash Cartridge, 330 g, 40-60 µm silica	4	FCISI330

Larger cartridges, cartridges with C18 bonded silica or other packing materials and cartridges for other flash systems are also available, please contact Sigma-Aldrich Technical Service or visit our website at sigma-aldrich.com/versaflash for more information.

Trademarks

Biotage — Biotage AB Corporation
CombiFlash, Companion, OptiX and Retrieve — Teledyne Isco
IntelliFlash and SimpliFlash — Varian Instruments (Analogix)
Supel Flash, VersaVac — Sigma-Aldrich Biotechnology LP