

ISOLUTE® Filtration Columns

The use of resin bound reagents and scavengers is now commonplace in the synthesis of organic compounds. The resins can be used to either remove excess reagents and by-products, or for selectively synthesising the compound of interest.

The particulate nature of resins allows rapid reaction work up by filtration, rather than traditional liquid-liquid extraction or column chromatography. If the resin is scavenging excess reagent, the retained reagent is removed by filtration, leaving the target compound in the filtrate. Alternatively, if the target compound is bound to the resin in the first step of a catch and release purification, the undesired compounds are separated by filtration, followed by release and isolation of the target compound.



The range of ISOLUTE filtration columns improves the efficiency at this stage of reaction work up. The columns are fitted with a single 20µm polyethylene frit and are available in a range of reservoir volumes from 1 to 150 mL. On completion of the reaction, the mixture is applied to the appropriate filtration column. The polypropylene column bodies are particularly well suited for use with resins as the resins do not stick or cling to the sides of the filtration device, a common problem with a fritted glass funnel. Moreover, ISOLUTE filtration columns are disposable, eliminating the tedious cleaning required when using higher cost fritted glass funnels. Multiple reactions can be processed by placing the filtration columns on the FlashVac® processing station.

ORDERING INFORMATION

ISOLUTE Filtration Columns

Description	Pack Size	Part Number
ISOLUTE PE 20µm filtration column (SG), single frit, 1 mL	100	120-1111-A
ISOLUTE PE 20µm filtration column (SG), single frit, 3 mL	100	120-1112-B
ISOLUTE PE 20µm filtration column (SG), single frit, 6 mL	100	120-1113-C
ISOLUTE PE 20µm filtration column (SG), single frit, 15 mL	100	120-1115-D
ISOLUTE PE 20µm filtration column (SG), single frit, 25 mL	100	120-1116-E
ISOLUTE PE 20µm filtration column (SG), single frit, 70 mL	50	120-1118-F
ISOLUTE PE 20µm filtration column (SG), single frit, 150 mL	25	120-1119-J

FlashVac Processing Station



Description	Part Number
FlashVac-10, complete with 19 mm rack	122-1019
FlashVac-10, complete with 25 mm rack	122-1025
FlashVac-20, complete with 19 mm rack	122-2019
FlashVac-20, complete with 25 mm rack*	122-2025

*The 25 mm positions in the FlashVac-20 are staggered in order to accommodate ten 150 mL columns

ACCESSORIES

Description	Pack Size	Part Number
PTFE stopcock / needle unit	10	121-0001
PTFE needle unit	10	121-0002
Universal PTFE stopcock	10	121-0009

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