

PRODUCT SHEET

Prefilter resin

Main Applications

- Removal of organic impurities

Packing

Order N°.	Form	Particle size
PF-B25-A, PF-B50-A PF-B100-A, PF-B200-A	25g, 50g, 100g and 200g bottles Prefilter resin	100-150 µm
PF-C50-A	50 and 200 2 mL Prefilter resin columns	100-150 µm
PF-R50-A	50 2 mL Prefilter resin cartridges	100-150 µm
PF-B25-S, PF-B50-S	25g and 50g bottles Prefilter resin	50-100µm

Physical and chemical properties

Density : 0,25-0,28 g/mL

Capacity : ≥ 50 mg Insulin /mL resin

Conditions of utilization

Recommended T of utilization: /

Flow rate: A grade: 0.6 – 0.8 mL/min

Storage: Dry and dark, T<30°C

Methods*

Reference	Description	Matrix	Analytes	Support
OTW02	Tritium in water	water	H-3	columns
TCS01	Technetium-99 in soil	soil	Tc-99	columns

*developed by Eichrom Technologies LCL

Prefilter resin is a hydrophilic, macroporous, acrylic ester polymeric resin with a pore size of approx. 25 nm and a narrow pore size and pore volume distribution. It has a high surface area (approx. 500 m²/g) and a high capacity for various organic compounds. The prefilter resin is insoluble in commonly used solvents such as isopropanol, methanol and acetonitrile, as well as in dilute solutions of acids and bases. It is thus well suited for operation within the entire pH range. Prefilter resin is mostly used for the removal of organic impurities from aqueous solutions, such as colourizing agents to avoid quench effects in liquid scintillation counting, or for the removal of co-eluted extractants from column or cartridge eluates which might interfere with electrodeposition. It is also part of the Tritium columns where it is used to remove organically bound radionuclides from the aqueous sample solutions.