

SOURCE 30RPC

Product Information

Cat#No# SO-473C

Product Overview

Source 30RPC is designed for reversed phase chromatography (RPC) with full pH range stability and suitable for intermediate purification and polishing in industrial processes requiring high flow velocities and low back-pressure.

Description

SOURCE 30RPC is an addition to the SOURCE product range, a family of high performance separation resins for fast, preparative purification of biomolecules such as proteins, peptides, and oligonucleotides (Fig 1). SOURCE 30RPC is designed for reversed phase chromatography (RPC) and is an alternative to silica-based RPC matrices. The resin is based on a monodisperse polymeric matrix, offering high capacity and wide pH stability.

SOURCE 30RPC is an excellent chromatography resin for the polishing stage of industrial purification processes where high productivity and stable performance in production are important.

Characteristic

Mono-sized 30 µm rigid beads gives low back pressures and high flow rates allowing for high productivity. Designed for high resolution reversed phase chromatography of proteins, peptides and oligonucleotides. High chemical stability allowing for wide range of working conditions with good resistance to cleaning conditions at high pH. BioProcess resin supported for industrial applications.

Maximum operating pressure

2000 cm/h, 1000 kPa, FineLINE 100 column, bed height 10 cm, i.d. 10 cm

Matrix

Polystyrene/divinyl benzene

Average particle size

~30 µm monosized

Ligand

SOURCE 30RPC

Matrix surface

Dynamic binding capacity

~14 mg BSA/mL resin at 300 cm/h, ~23 mg bacitracin/mL resin at 300 cm/h, ~72 mg insulin/mL resin at 300 cm/h.

Recommended flow rate

100 to 1000 cm/h

Recommended column height

10 cm

Chemical stability

Stable in commonly used aqueous buffers 1.0 M HCl, 1 M NaOH, 1 M HCl/ 90% methanol, 90% HAc, 0.45 M NaOH/40% 2-propanol, 6 M guanidine hydrochloride, n-propanol, 20% ethanol, acetone.

pH working range

1–12

CIP stability

1–14

Temperature stability

4°C to 40°C

Autoclavable

20 min at 121°C

Storage

4 to 30°C, 20% Ethanol or 70% Acetonitrile

Shipping

20% ethanol

Pack size

SOURCE 30RPC

200 mL

BioProcess resin

Yes
