

HiTrap Columns

Product Specification

Ion Exchange



995-0118

HiTrap™ SP and HiTrap Q columns are pre-packed, ready-to-use 1 mL or 5 mL strong cation and strong anion exchangers, respectively. HiTrap columns are packed with Sepharose® High Performance media for fast and convenient method scouting, group separations, and sample cleanup. Both columns have high loading capacities over a broad pH range.

HiTrap Affinity Column Selection Guide

HiTrap Column	Application	Binding Capacity (mg/mL gel)	Substitution/ mL gel	pH Stability (long-term)
Blue	albumin, coagulation factors, interferon, enzymes requiring adenylyl-containing cofactors	20mg human albumin	4µmol Cibacron Blue	4-12
Chelating	purification of proteins and peptides with exposed histidine groups	~23µmol Cu ⁺	—	3-13
Heparin	growth factors, Protein C, coagulation proteins, lipoproteins, steroid receptors	~3mg bovine ATIII	10mg heparin	5-10
NHS-activated	coupling of ligands via primary amino groups	—	10µmol NHS	3-12
MABTrap G II	mono- and polyclonal antibodies	25mg human IgG	—	3-9
Protein A	IgG and subclasses, human IgG	~20mg human IgG	~3mg Protein A	3-9
Protein G	IgG and subclasses, rat & mouse IgG ₁	25mg human IgG	2mg Protein G	3-9

Hydrophobic Interaction

The HiTrap HIC Test Kit screens for the most appropriate HIC medium for a specific application or for development work. The kit consists of five 1 mL HiTrap columns packed with Phenyl Sepharose High Performance, Phenyl Sepharose 6 Fast Flow (low sub), Phenyl Sepharose 6 Fast Flow (high sub), Butyl Sepharose 4 Fast Flow, and Octyl Sepharose 4 Fast Flow. Instructions are included recommending test procedures to help optimize salt concentration, sample loading, resolution, and other chromatographic parameters.

Note: All HiTrap Columns can be operated with a syringe, peristaltic pump, or HPLC/FPLC® system.

Affinity

HiTrap affinity columns are packed with 1 mL or 5 mL of derivatized Sepharose High Performance material. The gel is formed by covalent coupling of the ligand to highly crosslinked agarose beads, giving high capacity, high performance, and low leakage. The exceptional properties of the affinity materials make them a versatile tool for the separation of a wide variety of molecules.

The MABTrap® G II kit is an affinity chromatography kit for fast and effective purification of monoclonal and polyclonal IgG from ascites fluid, serum, and cell culture supernatant. Each kit contains a disposable 1 mL HiTrap column pre-packed with Protein G Sepharose High Performance media and pre-made binding, elution, and neutralizing buffer concentrates. Up to 20 purifications can be performed using either a simple syringe or a peristaltic pump.

HiTrap Desalting

HiTrap Desalting columns are ready-to-use 5 mL HiTrap columns, pre-packed with Sephadex® G-25 Superfine for group separations, buffer exchange, and removal of low molecular weight contaminants. Up to 5 columns connected in series can be operated with a syringe or a pump without any problems. Adding columns in series makes the sample volume range from 100µL to 7.5 mL.



995-0119

Ordering Information:

Description	Qty.	Cat. No.
HiTrap Ion Exchange Columns		
SP	5 x 1mL	54817
	5 x 5mL	54818
Q	5 x 1mL	54815
	5 x 5mL	54816
HiTrap Affinity Columns		
Blue	5 x 1mL	54832
	1 x 5mL	54833
Chelating	5 x 1mL	54834
	1 x 5mL	54835
Heparin	5 x 1mL	54836
	1 x 5mL	54837
NHS-activated	5 x 1mL	54830
	1 x 5mL	54831
MABTrap G II Kit		54842
Protein A	5 x 1mL	54838
	1 x 5mL	54839
Protein G	5 x 1mL	54840-U
	1 x 5mL	54841
HiTrap Desalting Column		
Desalting	5 x 5mL	54822
HiTrap Hydrophobic Interaction		
HIC Test Kit		54814

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FPLC, HiTrap, MABTrap, Sephadex, Sepharose — Pharmacia Biotech AB

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