

Protein A HP MultiTrap

Product Information

Cat#No# HP-046P

Product Overview

Protein A Sepharose High Performance has high affinity for the Fc region of IgG from a variety of species.

Description

Protein A Sepharose High Performance has high affinity for the Fc region of IgG from a variety of species. The two options in the protein enrichment protocol allow the attached antigen (protein of interest) to be eluted separately (cross-link protocol) or together with the antibody (classic protocol). Remember to order the collection plates for washing and elution of the enriched protein.

Characteristic

Fast, reliable ease-of-use format for small-scale purification of antibodies or enrichment of proteins of interest in prepacked 96-well filter plates that are ready to use.

Flexible format, with protocols for classic elution and cross-link method.

Elution conditions formatted for both electrophoresis and LC-MS analysis workflows.

Fast binding kinetics and high capacity provides high yield.

Easy scale-up with HiTrap Protein A HP prepacked columns.

Prepacked with Protein A Sepharose High Performance for coupling of antibodies of IgG subclasses.

MultiTrap 96-well filter plates can be used with centrifugation or vacuum, manually or in automated robotic systems.

Applications

Centrifugation ; Vacuum

Ligand Coupling Method

N-hydroxysuccinimide activation

Matrix

Highly cross-linked agarose, 6%

Average particle size

Protein A HP MultiTrap

34 µm

Ligand

Protein A

Ligand density

Approx. 3 mg protein A/mL medium

Dynamic binding capacity

> 10 mg human IgG/mL medium

pH working range

3–9

CIP stability

2–9

Temperature stability

4°C to 30°C

Storage

2 - 8°C, 20% Ethanol

Shipping

20% ethanol

Binding buffer

20 mM sodium phosphate, pH 7.0

Elution buffer

0.1 M glycine-HCl, pH 2.7

Purification procedures

1. Prepare collection plates For step 6, prepare 2 collection plates for eluted fractions, each containing 15 µL neutralizing buffer per well.

Protein A HP MultiTrap

2. Remove storage solution a. Suspend the medium by gently shaking the plate upside down. b. Remove top and bottom seals and place the MultiTrap plate on a collection plate. c. Remove the storage solution by centrifugation for 1 min at 70-100 × g.
3. Equilibrate a. Add 300 µL binding buffer and mix briefly. b. Centrifuge for 30 s at 70-100 × g.
4. Bind antibody a. Add maximum 300 µL of the antibody solution. b. Incubate for 4 min while gently mixing. c. Centrifuge for 30 s at 70-100 × g.
5. Wash a. Add 300 µL binding buffer, mix briefly and centrifuge for 30 s at 70-100 × g. b. Perform this step 2 times total.
6. Elute antibody a. Replace the collection plate with a collection plate prepared in step 1. b. Add 200 µL of elution buffer, mix briefly and centrifuge for 30 s at 70 × g and collect the eluate. c. Perform this procedure 2 times total.

Pack size

4

Dimensions

127.8 × 85.5 × 30.6 mm

Column volume

800 µL

Material

Polypropylene and polyethylene

Resin suspensions in total volumes

50 µl

Centrifugation force recommended

<700 × g

Operating temp. max.

30°C

Operating temp. min.

Protein A HP MultiTrap

4°C

Scale

Lab

Format

Prepacked 96-well plate
