CREATIVE BIOMART®
Chromatography

HiScreen Capto Blue

Product Information

Cat#No#	Hi-065P
Maximum operating pressure	
3 bar [0.3 MPa] (44 psi)	
Matrix	
Cross-linked agarose, 6%, spherical	
Average particle size	
~ 75 µm	
Ligand density	
11 to 16 µmol/ml Cibacron Blue/mL resin	
Dynamic binding capacity	
Approx. 25 mg human serum albumin/ml medium	
Recommended flow rate	
1.2 ml/min - 2.3 ml/min	
Recommended column height	
100 mm	
Chemical stability	
Stable to commonly used aqueous buffers, 0.01 M NaOH 8 M urea, 6 M guanidine hydrochloride, 30% isopropanol, and 70% ethanol.	
pH working range	
3 to 13	
CIP stability	
2 to 13.5	
Storage	

Tel: 1-631-559-9269 1-516-512-3133
Email:info@creative-biomart.com
Fax:1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

HiScreen Capto Blue

2°C to 8°C
Elution buffer
50 mM KH2PO4 , 1.5 M KCl, pH 7.0 or 20 mM sodium phosphate, 2 M NaCl, pH 7.0.
Cleaning-in-place
Precipitated proteins: 1. Wash the column with 4 column volumes (CV) of either 0.5 M (HiScreen Capto Blue) or 0.1 M NaOH (HiScreen Blue FF) at 40 cm/h. 2. Wash with 3 to 4 CV of 70% ethanol or 2 M potassium thiocyanate. 3. Wash immediately with at least 5 CV filtered start buffer, pH 8.0. or 1. Wash the column with 2 CV of 6 M guanidine hydrochloride. 2. Wash immediately with at least 5 CV filtered start buffer, pH 8.0. Strongly bound hydrophobic proteins, lipoproteins, and lipids:1. Wash the column with 3 to 4 CV of up to 70% ethanol or 30% isopropanol.. 2. Wash immediately with at least 5 CV filtered start buffer, pH 8.0. or 1. Wash with 2 CV detergent in a basic or acidic solution, e.g., 0.1% non-ionic detergent in 1 M acetic acid. Wash at a flow rate of 40 cm/h. 2. Remove residual detergent by washing with 5 CV of 70% ethanol. 3. Wash immediately with at least 5 CV filtered start buffer, pH 8.0.
Purification procedures
1. Remove the stoppers and connect the column to the system. Avoid introducing air into the column. 2. Equilibrate with at least 5 column volumes (CV) start buffer. 3. Adjust the sample to the chosen starting conditions and load on the column. 4. Wash with 5 to 10 CV start buffer until the UV trace of the effluent returns to near baseline. 5. Elute either by linear gradient elution or a step elution at recommended flow rates. 6. Re-equilibrate the column with 5 to 10 CV start buffer or until the UV baseline, eluent pH, and conductivity reach the required values.
Maximum flow velocity
4.7 mL/min
Dimensions
7.7 × 100 mm
Column volume
4.7 ml

Tel: 1-631-559-9269 1-516-512-3133

Email:info@creative-biomart.com

Fax:1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA

HiScreen Capto Blue

Column i.d.
7.7 mm
Column hardware pressure limit
0.8 MPa (8 bar, 116 psi)

Tel: 1-631-559-9269 1-516-512-3133

Email:info@creative-biomart.com

Fax:1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA