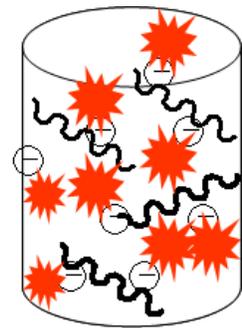




Pseudo Affinity Media for Purification of Heparin Binding Proteins (HbP)

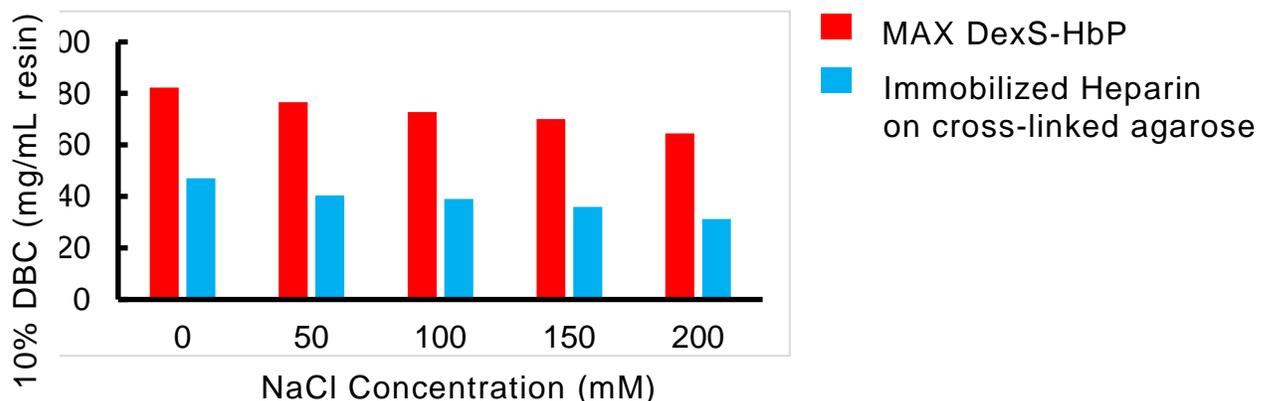
NEW Cellufine™ MAX DexS-HbP

Cellufine MAX DexS-HbP is a new pseudo affinity ligand based on low molecular weight Dextran sulfate modification. This non-animal derived affinity ligand can be used instead of immobilized Heparin for blood protein fractionation. The cross-linked cellulose base bead has been optimized for high flow applications and is fully compatible up to 0.5 M NaOH for CIP. This new resin has been developed to improve the protein capture efficiency of heparin binding proteins purified from plasma, such as Lactoferrin (see Figure 1 below) and Antithrombin III.



- Low molecular weight Dextran sulfate surface modification
- Elution and recovery with high salt
- Very stable cross-linked cellulose base bead
- Very stable in 0.5 M NaOH

Figure 1, [Lactoferrin binding to MAX DexS-HbP and Heparin cross-linked agarose](#)



Common Features

- Flow rates up to 250 cm/h at < 0.3 MPa backpressure,
- Base stable at up to 0.5 M NaOH,
- Very stable highly cross-linked cellulose bead structure.

NEW Cellufine MAX DexS-HbP Features

- High salt tolerance up to 0.25 M NaCl
- High recovery (>80 %) of heparin binding proteins in high salt at neutral pH
- Base stable at up to 0.5 M NaOH
- Enhanced protein binding compared to Immobilized Heparin on agarose

Additional Cellufine Products used during Viral Purification

Cellufine ET clean (poly(ϵ -lysine)) - can remove endotoxin from a cellular product solution at physiological pH, ionic strength of $\mu = 0.02$ -1.0, and 4 -25 C°.

Cellufine GH-25 desalting media - based on porous, spherical, highly crosslinked cellulose particles. The sharp 3 kD exclusion limit allows proteins to pass through the column in the void volume while retarding smaller molecular weight solutes in the internal pores.

Description	Quantity	Catalogue No.
Cellufine™ MAX DexS-HbP	5 x 1 mL mini-column	21 700-51
	1 x 5 mL mini-column	21 700-15
	10 mL	21 700
	50 mL	21 701
	500 mL	21 702
	5 L	21 703
	10 L	21 704

Purchase/Technical Support

(North America & Europe)
 JNC America, Inc.
 555 Theodore Fremd Ave,
 Rye, NY 10580
 Tel: 914-921-5400
 Fax: 914-921-8822
 Email: cellufine@incamericany.com

(Asia & Others)
 JNC Corporation
 Life Chemicals Launch Office
 2-1, Otemachi 2-Chome, Chiyoda-ku
 Tokyo 100-8105 Japan
 Tel: +81 3 3243 6150
 Fax: +81 3 3243 6219
 Email: cellufine@inc-corp.co.jp