

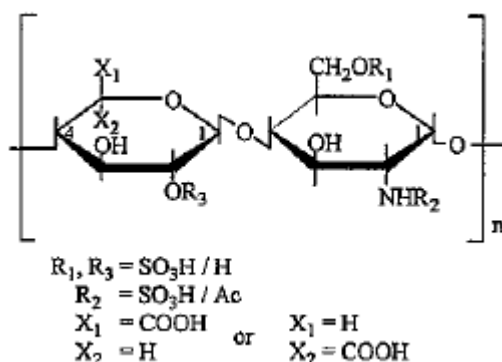
CATALOG # 400700
Package Size: 2 mg
Heparan Sulfate, Na (from Bovine Kidney)
CAS Number: 9050-30-0
DESCRIPTION:

Heparan Sulfate, Na Salt (Super Special Grade) from Bovine Kidney, Heparitin Sulfate, Heparin Monosulfate, N-Acetylheparan Sulfate ¹

Source: Bovine kidney

Country of Origin: Australia

Heparan Sulfate was prepared from Bovine Kidney, purified by Schiller's column chromatographic method ² and chondroitinase ABC treatment.

REACTION:

SPECIFICATIONS:

Total Nitrogen	2.6 - 3.2%	Micro Kjeldahl ³
Total Sulfur	4.5 - 6.0%	Schöniger ⁴
Inorganic Sulfur	Not Detected	
Chloride	Not Detected	
Glucosamine	30 - 35%	Amino Acid Autoanalyzer ⁵
Galactosamine	< 0.01%	Amino Acid Autoanalyzer ⁵
Uronic Acid	38 - 42%	Carbazol reaction ⁶
$[\alpha]_D^{20}$ (c=1 in water)	+75 - +88°	Automatic Polarimeter ⁷

Appearance:	Lyophilized
Purity:	Migrated as a single band on cellulose acetate strip electrophoresis ⁸

STORAGE:

Store at 4°C in a dry and dark place until opened. Following reconstitution, aliquot and freeze at -20°C for long-term storage or refrigerate at 2-8°C for short-term storage.

REFERENCES:

- 1) Lanber, A., Hoffman, T, Sanpson, T., Meyer, K. (1958) *Biochim. Biophys. Acta.*, **29**, 443
- 2) Schiller, S., Slover, G.A. and Dorfman, A. (1961) *J. Biol. Chem.*, **236**, 983
- 3) Kjeldahl, J. (1883) *Z. Anal. Chem.*, **22**, 366
- 4) Schöniger, W. (1952) *Mikrochim. Acta.*, **123**
- 5) HITACHI L-8500
- 6) Bitter, T., Muir, H.M. (1962) *Anal. Biochem.*, **4**, 330
- 7) HORIBA SEPA - 200
- 8) Seno, N., Anno, K., Kondo, K., Nagase, S and Saito, S. (1970) *Anal. Biochem.*, **37**, 197

NOTE:

For *in vitro* research use only – not for diagnostic or therapeutic use. This product is not a medical device.

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