

Gojira Fine Chemicals, LLC

Quality Products & Services Meeting Customer Needs
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Specification

Heparin Sodium USP

Catalog Number: HS1003 CAS Number: 9041-08-1

Origin: Healthy porcine mucosa

Storage: $15^{\circ}\text{C} - 30^{\circ}\text{C}$

Retest Period: Three years from the date of manufacture

Test	Specification
Appearance	White or almost white powder, hygroscopic
Identification	
A: ¹ H-NMR	No unidentified signals greater than 4 % of main signal height of 1 and 2 at 0.10-2.00, 2.10-3.20, 5.70-8.00; no signal >200% signal height mean signal height of 1 and 2 present at 3.75-4.55
B: Chromatographic identity	The retention time of the major peak from sample solution corresponds to that from the RS
C: Anti-factor Xa to anti- factor II a ratio	0.9 – 1.1
D: Molecular weight determinations	$M_{24,000} \le 20\%$
B. Wolcoular Weight determinations	Mw range 15,000 – 19,000Da
E: Sodium Reaction	$M_{8,000-16,000}/M_{16,000-24,000} \ge 1.0$
	Positive
Assay (anti-factor II a potency, Dried Basis)	> 180 USP-U/mg
Solubility	Freely soluble in water
pH (1% solution)	5.0 - 7.5
Moisture (LOD)	≤ 5.0% (in vacuum at 60°C for 3 hours)
Residue on Ignition	28.0 – 41.0%
Nitrogen (Dried Basis)	1.3 - 2.5%
Nucleotide Impurities	260 nm: ≤ 0.10%
(0.4% solution)	
Limit of galactosamine	≤ 1.0%
Absence of OSCS	A: (¹H-NMR) – no OSCS features between 2.12- 3.00 B: (SAX-HPLC) – no OSCS peaks after heparin peak
Protein Impurities	≤ 0.1%
Bacterial Endotoxins	≤ 0.03 EU/USP Heparin Unit
This batch meets the specifications for USP41. The country of origin is China.	
Honorin Sodium is a highly sulfated alvegoaminoglycan parhabydrate polymer derived from paraina	

Heparin Sodium is a highly-sulfated glycosaminoglycan carbohydrate polymer derived from porcine intestinal mucosa. Heparin is most often used as an anticoagulant based upon its ability to bind to antithrombin III, a naturally occurring plasma protease inhibitor, and accelerates the rate at which ATIII inhibits the coagulation proteases factor Xa and thrombin.

Heparin Sodium is intended for manufacturing, development or technical purposes only and must not be administered to humans or used for any drug purpose.

Approved: Date: November 27, 2018



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