

## Certificate of Analysis

Date of Testing: 2022-05-26 13:13:00  
 Date of Next Testing: 2025-05-25 13:13:00  
 Product Name: **Heparin sodium**  
 CAS Number: 9041-08-1  
 Specifications & Purity: Anti factor Xa titers 110~210IU/mg  
 Lot #: E2224169  
 SKU #: **H284091**  
**Analysis:** **074978**  
 Storage Temperature: Store at 2-8°C

Parameter	Limit Values	Result
(Dry base)Titer of anti XA factor	110-210(IU/mg)	123.00000 IU/mg OR I.U./mg
(Dry base)Titer of anti IIA factor	35-100(IU/mg)	55.00000 IU/mg OR I.U./mg
Molar ratio(SO42-/COOH-)	≥1.8	2.40000
Anti XA factor/anti IIA factor	1.9-3.2	2.24000
PH	5.5-8	7.00
Total Nitrogen	1.5-2.5 (%)	1.90 %
Loss on drying	0-5 (%)	1.50 %
Sodium(Na)	9.5-12.5 (%)	11.90 %
Boron(B)	0-1 (ppm)	0.32 ppm
(Dry base)Ethanol residue	≤0.5 (%)	0.01340 %
Total aerobic bacteria	≤10(cfu/g)	9.00000 cfu/g
Total number of molds and yeasts	≤10(cfu/g)	9.00000 cfu/g
nitrite	≤5(ppm)	1.00000 ppm
Heavy metals	0-20 (ppm)	15.00 ppm
Appearance (H284091)	White to off-white powder	White to Off-White Powder
Bacterial endotoxin(< 0.01EU/IU)	Pass	Pass



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ALADDIN SCIENTIFIC CORPORATION

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A handwritten signature in black ink that reads "John Su".

John Su  
QA & QC Manager