

## Certificate of Analysis

Date of Testing: 2023-08-03 10:01:55  
Date of Next Testing: 2027-08-02 10:01:55  
Product Name: **Heparin sodium salt**  
CAS Number: 9041-08-1  
Specifications & Purity:  $\geq 180$  USP units/mg  
Lot #: G2329051  
SKU #: **H123383**  
**Analysis: 259032**  
Storage Temperature: Store at 2-8°C

Parameter	Limit Values	Result
potency (dry basis)	$\geq 180$ (units/mg)	196.10 units/mg
Loss on drying	0-5 (%)	1.20 %
Nitrogen by Elemental Analysis (anhydrous)	1.3-2.5 (%)	2.10 %
Appearance (H123383)	White to Off-White Powder	White to Off-White Powder
Identification(Chromatographic Identity)	Pass	Pass
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility in H <sub>2</sub> O , Colorless to Faint Yellow , Clear , 50 mg/ml H <sub>2</sub> O	pass	Pass



John Su  
QA & QC Manager