

# Chem-Impex International, Inc.

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## Product Specifications

**Catalogue Number** 29984

**Product** **Heparin sodium salt**

**CAS Number** 9041-08-1

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**Warnings** *Hygroscopic!*

**Appearance** White or almost white powder

**Elemental Analysis (Theory)** Nitrogen content : 1.3 - 2.5% (dried basis)

**pH** 5.0 - 7.5

**Loss on Drying**  $\leq 5\%$  (Vacuum at 60 °C, 3h)

**Bacterial Endotoxins**  $\leq 0.03$  EU/USP Heparin unit

**Protein Determination**  $\leq 0.1\%$

**Related Substances** Nucleotidic impurities :  $\leq 0.1\%$

**Residue On Ignition** 28 - 41%

**<sup>1</sup>H NMR** Conforms to structure

**Potency (Anhydrous Basis)**  $\geq 180$  USP Heparin units/mg (dried basis)

**Grade** Meets USP specification

**Storage** Store at 0 - 8 °C

**Additional Information** Chromatographic identity : To pass test  
Anti-Factor Xa to Anti-factor iia ratio : 0.9 - 1.1  
M24000 :  $\leq 20\%$ , Mw : 15000 - 19000 Da  
Ratio of M8000-16000 to M16000-24000 is  $\geq 1.0$   
It meet the requirements of the flame test for sodium.  
Limit of Galactosamine in Total Hexosamine :  $\leq 1.0\%$   
Oversulfated Chondroitin Sulfate : To pass test

**For Laboratory Use Only**