

## Certificate of Analysis

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**Product Name:** Heparin sodium salt

**Catalog No.:** 2812

**Batch No.:** 9

CAS Number: 9041-08-1

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Physical Appearance:** Off White solid  
**Solubility:** water to 50 mg/ml  
**Storage:** Desiccate at RT

### 2. ANALYTICAL DATA

**Biological Activity :** 204 MIU / Kg

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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**Product Name:** Heparin sodium salt

**Catalog No.:** 2812

**9**

CAS Number: 9041-08-1

**Description:**

Heparin sodium salt is a minimum activity: > 150 I.U./mg. Glycosaminoglycan that behaves as an anticoagulant. Binds with high affinity to antithrombin III (AT-III). Used in a protocol to generate kidney organoids from human pluripotent stem cells. For more information about how Heparin sodium salt may be used, see our protocol: Generation of Kidney Organoids from hPSCs

**Physical and Chemical Properties:**

Physical Appearance: Off White solid

**Storage:** Desiccate at RT

**Solubility & Usage Info:**

water to 50 mg/ml

CAUTION - This product is hygroscopic and we recommend that it is desiccated upon arrival. This product has a molecular weight between 8000 and 25000g/mol.

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**References:**

**Takasato *et al*** (2016) Generation of kidney organoids from human pluripotent stem cells. *Nat.Protoc.* **11** 1681. PMID: 1681.

**Lever and Page** (2002) Novel drug development opportunities for he. *Nat.Rev.Drug Discov.* **1** 140. PMID: 12120095.

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