

# Sodium Hyaluronate Ph. Eur.

## PRODUCT IN FOCUS



## Sodium Hyaluronate Ph. Eur.

### INTRODUCTION

Sodium Hyaluronate is the sodium salt of hyaluronic acid, a naturally occurring glycosaminoglycan known for its exceptional ability to retain moisture, along with its viscoelastic and biocompatible properties, making it highly valuable across pharmaceutical, cosmetic, and biomedical applications.

### MANUFACTURE:

It is typically produced through microbial fermentation using strains such as *Streptococcus*, followed by a series of purification steps including filtration, precipitation, and drying to yield a high-purity, stable powder form suitable for various applications.

### APPLICATIONS

- 🚫 Ophthalmic solutions
- 🚫 It is used as an aid in ophthalmic surgery.
- 🚫 Osteoarthritis injections.
- 🚫 Cosmetics (as a hydrating and anti-aging ingredient).
- 🚫 Medical devices (including dermal fillers and wound healing formulations)
- 🚫 Advanced Delivery Systems :Encapsulated sodium hyaluronate provides controlled release mechanisms.
- 🚫 Pharmaceuticals : In topical preparations it functions like a nanocarrier.

#### Synonyms

hyaluronic acid sodium salt, sodium hyaluronate, hyaluronan sodium, and HA sodium salt.

#### CAS no.

9067-32-7

#### EINECS no.

618-620-0

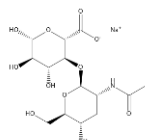
#### Molecular formula

$(C_{14}H_{20}NNaO_{11})_n$

#### Molecular weight

403.32

#### Structure





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### SPECIFICATIONS

Test	Unit	Specification
Appearance	-	White or almost white, powder or fibrous aggregate
<b>Identification</b>		
Appearance of solution	-	Should be Clear
Reaction (a) of Sodium	-	$A_{600\text{nm}} \leq 0.01$
pH	-	Should give positive reaction
Loss on drying	%	5.0-8.5
Intrinsic Viscosity	m <sup>3</sup> /kg	NMT 20
Nucleic acids	$A_{260\text{ nm}}$	1.2 – 2.8
Protein	%	< 0.5
Chlorides	%	NMT 0.1%
Iron	ppm	NMT 0.5
Microbial contamination (TAMC)	cfu /g	NMT 30
Bacterial endotoxins	IU/mg	NMT 100
Assay (On dried basis)	%	NMT 0.5
<b>Residual Solvents (Additional In-house Test)</b>		
Ethanol	ppm	95.0 – 105.0
		NMT 5000

### PACKING

100 g bottles for smaller quantities, 25 kg drums and 200 kg drums for commercial quantities.

### STORAGE

Store in airtight container, protected from light and humidity between 2-8°C

### REACH status

Not registered

ExSyn offers Sodium Hyaluronate Ph. Eur. on commercial scales and welcomes enquiries. No matter the quantity you need, our exceptional quality and service will make ExSyn your supplier of choice! If you need any additional information or SDS, please contact us.