

# iff

Where science  
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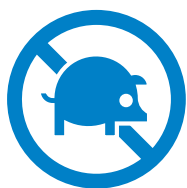
NovaMatrix®

## SODIUM HYALURONATE



**Sodium Hyaluronate Pharma Grade is manufactured using Streptococcus zooepidemicus in a fermentation process, yielding a highly purified, well-characterized product developed for use in biomedical and pharmaceutical applications. The site has been operating for over 10 years and is compliant with cGMP guidelines for bulk pharmaceuticals.**

## **KEY PROPERTIES**



Non-animal origin



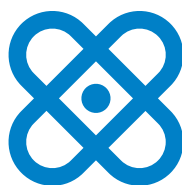
Highly purified,  
low-endotoxins



Designed for  
pharmaceutical and  
medical applications



Forms highly viscous  
aqueous solutions



Large product line  
offering to meet a wide  
range of applications

# SODIUM HYALURONATE APPLICATIONS

- Treatment of arthritis & visco-supplementation
- Dermal filler for wrinkle, facial contour & lip plumping
- Various ophthalmologic applications including intraocular lenses, eye drops and contact lens solutions
- Medical device coatings
- Anti-adhesion polymer
- Wound dressings
- Topical skin applications

## Wide viscosity range

The coiled structure of hyaluronate allows entrapment of ~1,000 times its weight in water. This characteristic gives the molecule unique physicochemical properties and distinct biological functions, making it an attractive building block for many pharmaceutical applications and medical devices

Please reach out to learn more or to discuss the specific needs for your application [vianovamatrix.info@iff.com](mailto:vianovamatrix.info@iff.com)

## Product Selection Sodium Hyaluronate

### Viscosity and Molecular Weight

Product name	Intrinsic Viscosity [m <sup>3</sup> /kg]	Endotoxin [EU/mg]	Shelf life / Packaging	Regulatory	Typical applications
Pharma Grade 80	1.2 – 2.0	≤ 0.0025	3 years 100g or 10g	- CEP - US DMF	- First choice for most common medical applications
Pharma Grade 150	2.1 – 2.8	≤ 0.040	1 year 100g or 10g	- CEP - US DMF	- OVD - API for injections - Catheter coating - Anti adhesion agent
FCH-80LE	1.18 – 1.95	≤ 0.003	3 years 100g or 10g	- J DMF - JP - K DMF - Indian API Certificate	- API for injections - Dermal filler - Catheter coating - Anti adhesion agent
GS-40	0.39 – 0.99	≤ 0.040	3 years 100g or 10g	- US DMF - CEP	- Eye Drop - Topical application
GS-100	1.00 – 2.49	≤ 0.040	3 years 100g or 10g	- US DMF - CEP (under registration) - K DMF (under registration)	- Topical application - Ocular lubricant - Eye drops - Contact lens solution - Wound dressing
GS-200	2.50 – 3.31	≤ 0.040	18 months 100g or 10 g	- US DMF - CEP	- Dermal filler OVD - API for injections - Topical application - Wound dressing - Catheter coating
HM	3.32 – 4.60	≤ 0.050	24 months (Frozen) 100g	- CEP - Other filing in process	- OVD - Catheter coating - API for injections

CEP = Certificate of Suitability (compliance with European Pharmacopoeia)

US DMF = United States Drug Master File

J DMF = Japanese Drug Master File

JP = Japanese Pharmacopoeia

K DMF = Korean Drug Master File

OVD: Ophthalmic Visco-surgical Device (HA solution for eye surgery)

## About our NovaMatrix® business

NovaMatrix® is a global, leading producer of ultrapure biopolymers, built on nearly four decades of polymer science expertise. Our highly skilled team in Norway combines purification know-how with regulatory expertise to deliver well-characterized biopolymers to our customers in pharmaceutical, biotechnology and biomedical industries. We leverage IFF Pharma Solutions' unrivaled polymer design manufacturing footprint to deliver custom solutions to our customers.

## Get in touch

Our team is available to answer your questions and to discuss your needs for custom solutions.

Please reach out!

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