

## TECHNICAL DATA SHEET

Effective date: 04.2019

### Pure Hyaluronic Acid, HMW

#### INFORMATION ON SUBSTANCE / MIXTURE

INCI	Sodium hyaluronate
Chemical formula	(C <sub>14</sub> H <sub>20</sub> NO <sub>11</sub> Na) <sub>n</sub>
Manufacturing process	Product obtained from plant sources, through fermentation using biotechnology
Raw material category	Active ingredient raw material for cosmetic formulations
Description	Cosmetic grade HMW (high molecular weight), it is a glycosaminoglycan and long-chain polymer of disaccharide units of Na-glucuronate-N-acetylglucosamine

#### TECHNICAL DATA

##### Composition

Sodium hyaluronate	Min 95.0 %
Protein	Max 0.05 %

##### Physical parameters

Appearance	Solid, powder
Color	White
Odor	Odorless
Solubility	Soluble in water, diluted acids, insoluble in ethanol, chloroform and ether
Molecular weight	1.0 – 1.6 MDa
pH (0.1% water solution)	6.0 – 7.5
Limiting viscosity	14.5 – 23.6 dl/g
Transparency (0.1% water solution)	Min 99.0 %
Residue on ignition	Max 20.0 %
Loss on drying	Max 10.0 %

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#### Biological parameters

Hemolysis	Negative
Total plate count	Max 100 cfu/g
Yeasts and molds	Max 50 cfu/g
Pseudomonas aeruginosa	Absent
Staphylococcus aureus	Absent
Viable hemolytic Streptococcus	Absent

#### Contaminants

Heavy metals (as Pb)	Max 20 ppm
Arsenic	Max 2 ppm

#### TRANSPORT, STORAGE and SHELF LIFE

Storage conditions	Keep container closed when not in use. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from moisture and direct sunlight.
Shelf Life	36 months, in closed packaging under the recommended conditions
Custom tariff	-

#### LEGISLATION

Certification	-
EINECS	232-678-0
CAS	9067-32-7

#### DISCLAIMER

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