

Prodotto SODIO JALURONATO

NOME INCI Sodium Hyaluronate

CAS 9067-32-7

FORMULA (C14H20NO11Na)n

SPECIFICA	METODO	Lim. InfLim. Sup.	u.m.
Aspetto		Polvere bianca liberamente scorrevole	
Odore		Conforme	
Sapore		Conforme	
Granulometria		100% attraverso 20-80 Mesh	
Peso molecolare medio		1.800 - 2.300	kDa
Solubilità		>= 98,0	%
pH (sol 0,1%)		5,5 - 7,5	
Proteine		<=0,10	%
Perdita all'essiccamento	EP	<=10,00	%
Metalli pesanti	EP	Max 20 ppm	
Solventi residui (etanolo)		Max 0,005 %	
Ceneri		>= 15,00	%
Viscosità (sol 0,05% in acqua)		3000 - 4000	
Acido D-glucuronico (by Bitter-Muir)		> 42,0	%
Conta batterica totale		<=1.000	CFU/g
Lieviti e muffe		<=100	CFU/g
E.coli		Negativo 100g	
Salmonella		Negativo 100g	
Titolo		>= 91,00	%
Revisione Capitolato		0	
Data Approvazione		08/07/2011	



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This product is not subject to labelling, it does not contain any dangerous compound.

Function: ingredients for cosmetic products

Inventory position: component listed in EINECS: / (polymer)

Regulatory status: no limitation for cosmetic use

Regulatory conformity

76/768/ECC: <u>CMR</u>

The product does not contain any substances Intentionally added and classified as Carcinogenic Mutagenic or Reprotoxic of category 1,2 or 3 according to annex 1 of

the Directive 67/548/EEC and its amendment

<u> Allergens</u>

The product comply with European Directive 2003/15/EC regarding the presence of the 26 Substances identified as allergenic. Due to the nature of the materials used for our productions, it can be stated that these allergenics are absent in the listed

products.

Animal testing

The product has not been tested on animals.

Manufacturing

flow chart: Fermentation → Broth → Crude → HA → dissolve → filtration → purification →

precipitation → dehydratation → vacuum drying → comminuting → packing → product

Specification: available

MSDS: available

Toxicology: Eye irritation: non irritant

Skin irritation: primary skin irritation index 0-4
Eye irritation (rabbit): non irritant (Draize)

Phototoxicity: non photo toxic
Skin sensitization: non sensitizing
Photo sensitization: non sensitizing

Mutagenesis: revision study with bacteria - any

mutagenic effect

DNA repair study with bacteria - any potential damage to DNA

Oral toxicity: LD50 (rat) > 0.4 g/kg; LD50 (mice) > 5000 mg/kg



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Ecotoxicity: ecological information not available

the product is biodegradable following the guidelines From OCSE and CEE. **Biodegradability:**

No animal testing made.

Typical values: Heavy

Pesticides: no

metals (%): no

Polyaromatics

hydrocarbons: no

Free

Other impurities or residues: proteins ≤ 0.05%

Residual solvent: the solvent used in manufacturing are ethanol and water.

residual solvent of ethanol is < 1000 ppm

Neutralisers: **VOC contents:** no

Preservatives: no

Antioxidants: no

Stabilisers: no

The

Bleaching agents: no Chelating agents: no

Synthetic: no Ingredients origin:

Animal: no

Vegetal: nο

Mineral: no

Biotechnological processing: yes (fermentation)

GMO: no

Quality management

ISO 9001:2008 system:

Hyaluronic acid is a natural compound of the biologic soft tissues, widely distributed **Properties:**

in the human body. It is mainly found in the skin and connective tissues. The molecular weight of natural body hyaluronate ranges from 4.000 to 8.000.000 Daltons. In the skin, it is found in epidermis and mostly dermis, where it is synthesized by fibroblast cells. It constitutes the predominant glycosaminoglycan (CAG), strong basis of the collagen-GAG network supporting skin's structure.

Mechanical properties

Due to the molecule rigidity and its capacity of attracting water, Hyaluronate occupies a large volume, forming a gel, resisting mechanical pressure.

Hydration properties

Literally acting like a sponge in our skin, Sodium Hyaluronate can reach a level of water mobilization of up to 20 times its own weight.



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Personal care application:

Sodium Hyaluronate HW Molecular weight range (in KDa) : 2200-1800 Application: anti-dehydration, film forming & tensing effect

keep in contained tightly closed when not in use from 5° C to 25° C, store in a cool Storage:

and dry space, protected from light.