

TECHNICAL DATASHEET

Cosphaderm® Sodium Hyaluronate low 5

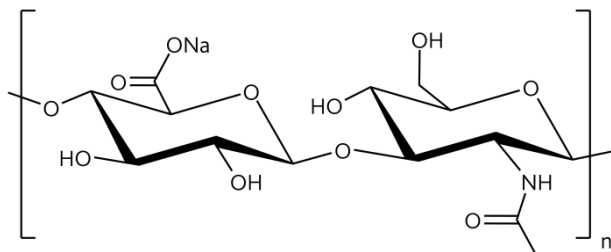
1.1 General information

Trade name:	Cosphaderm® Sodium Hyaluronate low 5
Item no.:	07-015-xxxx
Supplier:	Cosphatec GmbH Hopfenmarkt 33 20457 Hamburg Germany
Chemical name:	Sodium Hyaluronate
Other names:	Hyaluronic Acid Sodium Salt
INCI name:	Sodium Hyaluronate
CAS No.:	9067-32-7
EINECS/ EC No.:	–
IECIC:	Sodium Hyaluronate

1.2 Product composition

INCI name	CAS No.
Sodium Hyaluronate	9067-32-7

1.3 Chemical structure



Repeating Unit of Sodium Hyaluronate low 5 ($n = 7 - 14$)

1.4 Product short description

Sodium Hyaluronate low 5 is a mucopolysaccharide consisting of repeating disaccharide units of N-Acetylglucosamine and the sodium salt of Glucuronic Acid. This product is produced by all-natural fermentation and physical purification processes.

In human tissues, Hyaluronic Acid is a part of the extracellular matrix and fulfils many different functions. It binds water and serves as a natural lubricant. Furthermore, it is a natural humectant for the skin, while also guaranteeing its elasticity and its moisture retention properties. For these reasons it is extensively used in anti-aging and moisturizing products for cosmetic applications.

1.5 Application

Recommended concentration:	0.1 %
Conditions:	water soluble, forms a viscous solution
Hints:	add recommended concentration to the water phase of your formulation and warm the solution slightly if necessary

2.1 Specified data analyzed per batch

Appearance:	white powder
Transparency in water:	min 99.0 %
Sodium Hyaluronate content:	min 95.0 %
Glucuronic Acid	min 44.0 %
pH:	6.0 – 7.5
Limiting Viscosity (in water):	around 0.3
Loss on Drying:	max 10.0 %
Molecular Weight:	3 – 5 kDa
Heavy Metals:	max 10 ppm
Protein:	max 0.05 %

2.2 Specified data analyzed periodically

Microbial data:	Total Aerobic Count	max 10	cfu/g
	Yeast and Moulds	max 10	cfu/g
	<i>Pseudomonas aeruginosa</i>	none	cfu/g
	<i>Staphylococcus aureus</i>	none	cfu/g
	Hemolysis	none	cfu/g
	Viable hemol. Streptococci:	none	cfu/g
Residue on ignition:	max 20 %		
Chlorides:	max 0.5 %		

3.1 Physical and chemical properties

Molecular formula:	$(C_{14}H_{20}NNaO_{11})_n$ ($n = 7 - 14$)
Molecular weight:	3 – 5 kDa
Appearance:	white powder
Odour:	characteristic
pH:	6.0 – 7.5
Solubility:	Soluble in water forming a viscous solution, insoluble in organic solvents

3.2 Packing and Storage conditions

Packing sizes:	Cosphaderm® Sodium Hyaluronate low 5 is offered in 1 kg, 5 kg and 10 kg plastic bags
Storage conditions:	Store at 2–10 °C in a dark and dry place
Shelf life:	At least 24 month if unopened and stored under proper conditions

4.1 Regulatory compliance

Sodium Hyaluronate (CAS: 9067-32-7) is included/listed in the following international inventories: DSL (Canada); IECSC (China); AICS (Australia); NZIoC (New Zealand).

4.2 Regulatory status for cosmetic application

Product complies with Regulation (EU) No. 1223/2009 in all the defined requirements.

4.3 Additives

Product contains only the specified ingredients. No other substances like preservatives, antioxidants, fragrances, colorants or other are added.

4.4 Impurities

	Not expected*	Present#	ppm
BSE/TSE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Dioxin	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Formaldehyde	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Gluten	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Lactose	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Pesticides	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Phthalates	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Residual solvents	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Ethanol: ≤ 500
Heavy metals	ppm		
	total	≤ 10	
	Arsenic (As)	≤ 2	

4.5 Allergens

Product does not contain any of the 26 allergenic flavors or fragrances listed in Regulation (EC) No. 1223/2009 Annex III.

4.6 VOC

Product does not contain any volatile organic compound.

4.7 CMR

Product is not rated as CMR (category 1A, 1B and 2) and does not contain any ingredient rated as CMR according to Regulation (EC) No. 1223/2009 in association with Regulation (EC) No. 1272/2008/EC.

4.8 SVHC

Product is neither listed as SVHC substances nor contains any material with is listed as SVHC substance.

4.9 Nanomaterial

Product is not embraced by article 16 Regulation (EC) No. 1223/2009.

4.10 Animal testing

The Cosphatec GmbH has not conducted any animal testing for cosmetic purpose since March 11th 2009.

4.11 Irradiation

Product has not been irradiated in any step of the entire production process.

4.12 Origin

Substances (INCI name)	Synthetic	Vegetal	Biotechnology
Sodium Hyaluronate	<input type="checkbox"/>	<input checked="" type="checkbox"/> Name of the plant: Soy, corn Plant part used: Beans Origin: China	<input checked="" type="checkbox"/> Microorganism used: <i>Streptococcus</i> <i>Zooepidemicus</i>

4.13 GMO

The product is not subject to labelling according to Regulations (EC) No. 1829/2003 and 1830/2003.

4.14 Certifications

ECOCERT

COSMOS

Other Information

This information and our technical application advice are given to the best of our knowledge, but they are for information purposes only and given without responsibility. The advice doesn't exempt you from doing your own testing, particularly with regard to the qualification of our products for its intended processes and purposes. Application, use and handling of our products take place out of our control and are solely your responsibility. The sale of our products occurs according to our current general sales terms and delivery conditions.

* not expected to be present due to raw materials, production process and used equipment. Not regularly analysed.

#expected to be present due to raw materials, production process and used equipment. Periodically analysed.

