



SPECIFICATION DATA SHEET

PrincipHYAL[®] Cube³

EU and US INCI name	Chinese (IECIC) INCI name	CAS and EC nr. according to REACH regulation	CAS and EC nr. associated to the INCI name*
Sodium Hyaluronate	Sodium Hyaluronate	CAS: 9067-32-7 EC: ---- (polymer)	CAS: 9067-32-7 EC: ---- (polymer)

*found in International Cosmetic Ingredient Dictionary and Handbook, published by PCPC

ANALYTICAL SPECIFICATION			
Parameter	Unit	Requirement	Method
PHYSICAL-CHEMICAL			
Appearance	-	Powder	IO 07-06A
Color	-	White	IO 07-06A
Odor	-	Characteristic	IO 07-06A
Molecular weight	kDa	50 – 3.000	IO 07-06AA
Limiting viscosity	dl/g	≤ 30	IO 07-06BU
pH (0.1% solution)		6,0 – 8,0	IO 07-06B
Transparency (0.1% solution, 550 nm)	%	≥ 99	Ph.Eur. 2.2.25
Loss on drying (105°C)	%	≤ 10	IO 07-06K
Proteins	%	≤ 0,10	S.H. Ph.Eur. Monograph
Sodium Hyaluronate assay	%	≥ 93	S.H. Ph.Eur. Monograph
Glucuronic acid assay	%	44 – 50	S.H. Ph.Eur. Monograph
EFFICACY			
<i>Elastin synthesis (fibroblasts, 24h, 1%)</i>	µg	≥ 110,00	IO 07-06CA

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MICROBIOLOGICAL			
Total bacterial count	CFU/g	≤ 100*	Ph.Eur. 2.6.12 / USP (current edition)
Total yeast and mould count	CFU/g	≤ 100*	Ph.Eur. 2.6.12 / USP (current edition)
<i>Staphylococcus aureus</i>	g	Absence	Ph.Eur. 2.6.13 / USP (current edition)
<i>Pseudomonas aeruginosa</i>	g	Absence	Ph.Eur. 2.6.13 / USP (current edition)
<i>Candida albicans</i>	g	Absence	Ph.Eur. 2.6.13 / USP (current edition)
<i>Escherichia coli</i>	g	Absence	Ph.Eur. 2.6.13 / USP (current edition)

*2x (as per Ph. Eur. 2.6.12)

Storage: keep the product in the original container, well closed. Store in a cool and dry place (15°C - 30°C), protected from humidity, light or heat sources.

Period of best use: 36 months from production date, in the sealed original container, if stored as described above.

Roelmi HPC Technical Department

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