



LOW MOLECULAR WEIGHT HYALURONIC ACID

CODE: HIAL-3		Date of last amendment: 19.08.2024	
INCI name: WATER (AQUA) (AND) SODIUM HYALURONATE (AND) PHENOXYETHANOL.			
DESCRIPTION: Low Molecular Weight Hyaluronic Acid (approximately 10.000 – 30.000 Dalton), obtained by fermentation of natural strains of <i>Streptococcus Equii</i> .			
COMPOSITION (INCI NAME)		% (weight)	CAS #
Water (Aqua)		98.000	7732-18-5
Sodium Hyaluronate		1.000	9067-32-7
Preservatives: Phenoxyethanol		1.000	122-99-6
Color:	Colorless to pale pink		
Appearance:	Translucent to slightly opalescent fluid		
Odor:	Mild		
pH:	4.00 – 6.00 (25°C) (USP XXVII)		
Density:	0.980 – 1.050 (pycnometer) (20°C) (USP XXVII)		
Dry residue:	1.00 gr.% minimum (0.5 gr. 1 hour 110° C).		
Viscosity:	< 50 cps (Brookfield, Pin 3, RPM 6, 25°) (USP XXVII)		
Molecular Weight:	10.000 – 30.000 Dalton. (Dynamic Laser Scattering)		
Identification:	FTIR-ATR (Iris accessory)		
Assay:	1% Carbazol Method (Bitter, T.; Muir, H. A modified uronic acid carbazole reaction. Anal. Biochem. 1962, 4, 330–334.)		
Heavy Metals (Pb):	Max. 20 ppm.		
Heavy Metals (As):	Max. 2 ppm.		
Microbiological control:	Mesophilic bacteria: less than 200 CFU/gr. Moulds & yeast: less than 20 CFU/gr. No pathogens.		
Keep refrigerated (5-15°C). Do not freeze. Protect from light.			
EXTERNAL COSMETIC USE			