



Raya Hyaluron 2.2

INCI name:	Sodium hyaluronate
Chemical description:	D-Glucuronsäure-N-Acetyl-D-Glucosamin Polymer
Trade name:	Raya Hyaluron 2.2
Application:	Cosmetics
Packaging:	in bags
Filling quantity:	1 kg/bag 5 kg/bag Special packaging upon request
Shelf life:	up to 2 years, not opened
Storage conditions:	dry and cool avoid direct sunlight



Product Specification Hyaluronic acid (Sodium Salt) 2.2

Test	Specification	Batch 20170506
Appearance	white powder	conforms
Glucuronic acid	> 44 %	46.6 %
Sodium Hyaluronate	> 91 %	96.35 %
Appearance of solution	$A_{600nm} < 0.01$	conforms
Nucleic acid	$A_{260nm} < 0.5$	conforms
pH	6.0 - 7.5	6.5
Molecular weight	2000-2400 k Da	2200 k Da
Protein	< 0.1 %	0.05 %
Loss on drying	< 10 %	6.1 %
Residue on ignition	< 20 %	10 %
Chlorides	< 0.5 %	0.3 %
Iron	< 80 ppm	< 80 ppm
Heavy metals	< 10 ppm	< 10 ppm
Arsenic	< 2 ppm	< 2 ppm
Bacteria counts	< 100 cfu/g	conforms
Yeast & Mold	< 10 cfu/g	conforms
Pseudomonas aeruginosa	negative	negative
Staphylococcus aureus	negative	negative
Hemolysis	negative	negative
Viable Hemolytical Streptococci	negative	negative