



Raya Hyaluron 3500

INCI name:	Sodium hyaluronate
Chemical description:	D-Glucuronacid-N-Acetyl-D-Glucosamin Polymer
Trade name:	Raya Hyaluron 3500
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 3500

Test	Specification	Batch 20160704
Appearance	white powder	white powder
Glucuronic Acid	$\geq 46 \%$	47.00 %
Sodium Hyaluronate	$\geq 95 \%$	97.3 %
Appearance of Solution	$A_{600nm} \leq 0.01$	conforms
Nucleic Acid	$A_{260nm} \leq 0.5$	conforms
pH	5.0-8.5	6.90
Molecular Weight	3000 - 5000 Da	3500 Da
Protein	$\leq 0.1 \%$	0.02 %
Loss on drying	$\leq 10 \%$	6.4 %
Residue on Ignition	$\leq 20 \%$	16.6 %
Chlorides	$\leq 0.5 \%$	0.4 %
Iron	$\leq 80 \text{ ppm}$	$< 80 \text{ ppm}$
Heavy metal	$\leq 20 \text{ ppm}$	$< 10 \text{ ppm}$
Arsenic	$\leq 2 \text{ ppm}$	$< 2 \text{ ppm}$
Bacteria Count	$\leq 100 \text{ CFU/g}$	$< 100 \text{ CFU/g}$
Molds & Yeast	$\leq 50 \text{ CFU/g}$	$< 10 \text{ CFU/g}$
Staphylococcus aureus	negative	negative
Pseudomonas aeruginosa	negative	negative
Hemolytic Streptococci	negative	negative
Conclusion complied with EP 9.0		