



## Raya Hyaluron 2.2

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