



## Raya Hyaluron MMW

<b>INCI name:</b>	<b>Sodium hyaluronate</b>
Chemical description:	D-Glucuronsäure-N-Acetyl-D-Glucosamin Polymer
Trade name:	Raya Hyaluron MMW
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) MMW

Test	Specification	Batch 1309403
<b>Appearance</b>	white powder or granules	conforms
<b>Transparency</b>	> = 99.0 %	99.8 %
<b>Identification</b>		
<b>Reaction of alkaline</b>	positive	conforms
<b>Reaction of sodium</b>	positive	conforms
<b>Assay Sodium hyaluronate</b>	> 95.0 %	97.7 %
<b>Glucuronic acid</b>	> = 44.0 %	47.0 %
<b>pH</b>	5.0 – 8.5	6.4
<b>Limiting viscosity</b>	4.9 – 8.5 dl/g	6.5 dl/g
<b>Loss on drying</b>	< = 10.0 %	7.3 %
<b>Kinematic Viscosity</b>		6,2 mm <sup>2</sup> /s
<b>Molecular weight</b>	<b>200 – 400 k Da</b>	<b>360 k Da</b>
<b>Heavy metals</b>	< = 20 ppm	conforms
<b>Protein</b>	< = 0.05 %	0.03 %
<b>Microbiological Tests</b>		
<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 Streptococ</b>	negative	negative