



## Raya Hyaluron EP 1 pharma grade

<b>INCI name:</b>	<b>Sodium hyaluronate</b>
Chemical description:	D-Glucuronsäure-N-Acetyl-D-Glucosamin Polymer
Trade name:	Raya Hyaluron EP 1 pharma grade
Product category:	Medical grade Sodium Hyaluronate
Applications:	Eye drops, eye lotions, contact lens Solutions, medical lubricants, Topical preparations (gel. Film etc.) Oral pharmaceutical preparations
Packaging:	in bags
Filling Quantity:	1 kg/bag Special packaging and smaller fillings quantity on request
Shelf life:	Up to 18 months, not open
Storage conditions:	Dry and cool Avoid direct sunlight and heat



## Product Spezifikation Raya Hyaluron EP 1 pharma grade

Test	Spezifikation	Result Batch 14051201
<b>Identification</b>		
Appearance	White powder or fibrous aggregate	comforms
Infrared absorption	like Ph.Eur. reference	comforms
Transparency solution	$A_{600nm} \leq 0.01$	0.00 (clear)
Reaction of sodium	positive	comforms
<b>Properties</b>		
Assay Sodium hyaluronate	95,0 - 105,0 %	101,3 %
Glucuronic acid	$\geq 44.0 \%$	47.0 %
pH	5.0 - 8.5	7.2
Limiting viscosity	1,6 - 2,8 m <sup>3</sup> /kg	2,4 m <sup>3</sup> /kg
Loss on drying	$\leq 15.0 \%$	6.6 %
Molecular weight	<b>1400 - 1600 k Da</b>	<b>1420 k Da</b>
Heavy Metals	$\leq 10$ ppm	$< 10$ ppm
Protein	$\leq 0.05 \%$	0.00 %
Microbial contamination	$< 100$ cfu/g	$< 20$ cfu/g
Bacterial endotoxins	$< 0.5$ IU/mg	comforms
Residuals solvents (ethanol)	$\leq 5000$ ppm	comforms
Nucleic acids	$A_{260nm} \leq 0.5$	0.01