



## Raya Hyaluron EP 3 pharma grade

<b>INCI name:</b>	<b>Sodium hyaluronate</b>
Chemical description:	D-Glucuronsäure-N-Acetyl-D-Glucosamin Polymer
Trade name:	Raya Hyaluron EP 3 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 opened
Storage conditions:	Dry and cool Avoid direct sunlight and heat



## Product Spezifikation

### Raya Hyaluron EP 3 pharma grade

Test	Spezifikation	Result (Batch 16012803)
<b>Identification</b>		
<b>Infrared absorption</b>	Like Ph.Eur.reference	comform
<b>Characters</b>	White or almost white powder or fibrous aggregate	comform
<b>Appearance of solution</b>	Solution is clear $A_{600\text{ mm}} \leq 0,01$	Clear 0.00
<b>Reaction of sodium</b>	positive	comform
<b>Assay (on dried substance) Sodium hyaluronate</b>	<b>95,0 - 105,0 %</b>	<b>97,0 %</b>
<b>pH</b>	5,0 - 8,5	5,9
<b>Limiting viscosity</b>	1,6 - 2,8 m <sup>3</sup> /kg	2,32 m <sup>3</sup> /kg
<b>Loss on drying</b>	$\leq 20,0 \%$	7,0 %
<b>Molecular weight</b>	<b>10 - 50 k Da</b>	<b>45 k Da</b>
<b>Heavy Metals</b>	$\leq 20$ ppm	$\leq 20$ ppm
<b>Chlorides</b>	$\leq 0,5 \%$	0,5 %
<b>Iron</b>	$\leq 80$ ppm	$\leq 80$ ppm
<b>Bacterial endotoxins</b>	$\leq 0,5$ IU/mg	$\leq 0,5$ IU/mg
<b>TAMC (Total aerobic microbial count)</b>	$\leq 100$ cfu/g	comform