



## Raya Hyaluron Cationic

**INCI name:** Hydroxypropyl trimonium Hyaluronate

**Chemical description:** D-Glucuronsäure-N-Acetyl-D-Glucosamin  
Polymer

**Trade name:** Raya Hyaluron Cationic

**Molecular formula**  $(C_{14}H_{20}NO_{11}Na(1-x)(C_6H_{15}NOCl)_x)_n$

**Application:** Cosmetic

**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) **Cationic**

Test	Specification	Batch 20170708
<b>Appearance</b>	white powder or granules	conforms
<b>Identification</b>		
<b>Identification of CPC</b>	conforms	conforms
<b>Identification of Sodium</b>	conforms	conforms
<b>Assay of Clucuronic acid</b>	38 – 48 % (on dry base)	41.2 %
<b>Assay of Hyaluronic acid Cationic on dry base</b>	≥ 90 %	conforms
<b>Ph</b> (0.5 % aq.sol., 25 °C)	5.0 ~ 7.5	6.6
<b>Absorbance of solution</b> (0.5 % aq.sol., 25 °C)	$A_{280nm} \leq 0.25$	0.02
<b>Appearance of Solution</b> (0.5 % aq.sol., 25 °C)	$T_{550nm} \geq 99.0 \%$	99,8 %
<b>Molecular weight</b>	<b>&gt;1000 k Da</b>	<b>&gt;1000 k Da</b>
<b>Loss on drying</b>	≤ 10.0 %	7.14 %
<b>Residue on Ignition</b>	≤ 15 %	8.38 %
<b>Kinematic viscosity</b>	2 – 10 mm <sup>2</sup> /s	conforms
<b>Degree of cationization</b>	0.40 – 0.60	conforms
<b>Protein</b>	≤ 0.1 %	0.05 %
<b>Heavy mwrL (as Pb)</b>	≤ 20 mg/kg	< 20 mg/kg
<b>Bacteria counts</b>	≤ 100 cfu/g	< 10 cfu/g
<b>Yeast &amp; Mold</b>	≤ 50 cfu/g	< 10 cfu/g
<b>Pseudomonas aeruginosa</b>	negative	negative
<b>Staphylococcus aureus</b>	negative	negative