



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

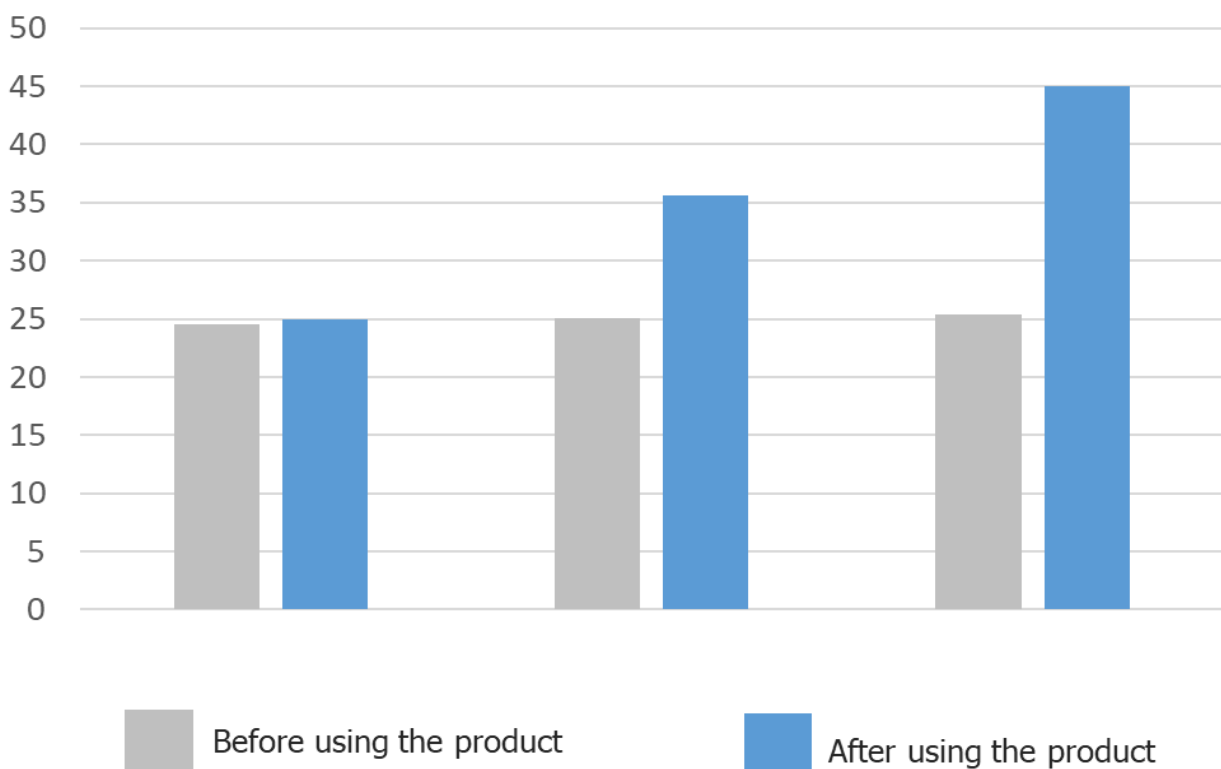
MORE INFORMATIONS

Raya Hyaluron cationic is a kind of new product developed on the basis of ordinary sodium hyaluronate. Besides the same high moisturizing properties and high viscoelasticity as ordinary sodium hyaluronate, it also has a good adsorption property. It is used in hair care products and cleaning cosmetics products, and it can be adsorbed on the hair and skin surface to keep it in a moist state and it does not be washed away easily by rinsing water. When added Raya Hyaluron cationic into skin care products, you obtain good ductility of hairs. When it is used on skin the feeling is refreshing without any oily feeling. Skin becomes more moist and shinier by long-term use.

Unique moisturizing properties

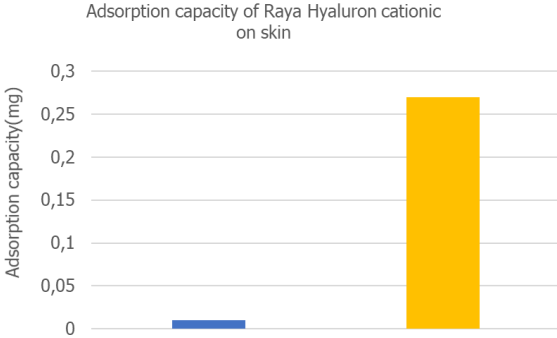
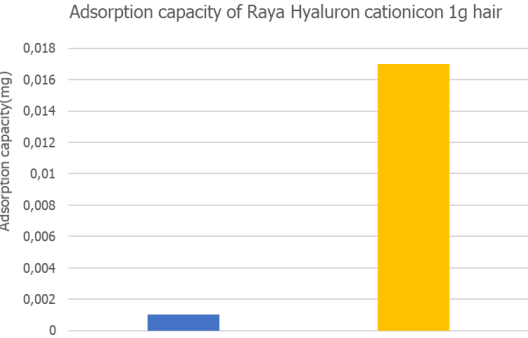
After using Raya Hyaluron cationic, the moisture content of the stratum corneum increased significantly, and the increased content was much higher than the ordinary sodium hyaluronate increased. This shows that the using of Raya Hyaluron cationic plays a better role in moisturizing than ordinary sodium hyaluronate.

Schematic diagram of water content in stratum corneum



Good effect of adsorption and affinity

Raya Hyaluron cationic is more easily adsorbed on the skin and hair surface, and it is not easy to be washed away by water. It plays an important role in moisturizing long lasting and efficiently.



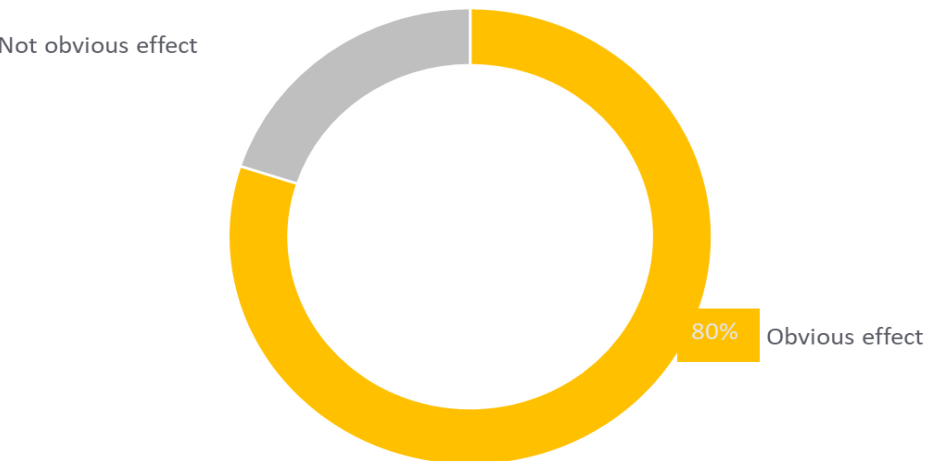
Better skin feeling, be absorbed more easily

When adding Raya Hyaluron cationic into skin care products, you feel a good ductility when it is used also the skin feeling is refreshing without any oily feeling after use. Skin becomes more moist and shinier when long-term use.

Test Objects: 10 peoples (women)

Experimental Method: Administer Raya Hyaluron cationic to local skin (three times a day), three days later, the data collected confirmed if testers felt moisture and soft, and whether the degree of moist improved.

Skin sensory analysis after using Raya Hyaluron cationic



- Shampoo and hair care products:
Shampoo, hair conditioner, hair mask, hair care agent, etc..
- Cleaning cosmetics products:
Facial cleanser, cleansing cream, cleansing foam, soap, shower gel, etc..
- Skin care products:
UV protection products, lotion, skin emulsion, cosmetic liquid, toner, etc..

Product description

- ◆ Dosage recommended: 0.5%-1%
- ◆ Method of use: Can be dissolved in water directly, and has good compatibility. It can be used with majority moisturizing agent, oil, preservatives, surfactants, etc.

Feuchtigkeitseffekt (Corneometrie)

