



## Raya Hyaluron Tremella

**INCI name:** Tremella fuciformis sporocarp extract

**Chemical description:** Constituent sugar: Mannose, Xylose,  
Glucuronic acid

**Trade name:** Raya Hyaluron Tremella (natural hyaluron)

**CAS-No.:** 778577-37-0

**Application:** Cosmetics - anti-oxidant, anti-aging / skin  
feel improved / thickening  
effect / emulsification /  
high effective moisturizing  
(water retention and  
water lock)

**Packaging:** in bottle and bag

**Filling quantity:** 100 g/bottle  
500 g/bottle  
1 kg /bag  
5 kg/bag  
Special packaging upon request

**Shelf life:** up to 2 years, not opened

**Storage conditions:** 2 – 10 °C, dry and cool place  
avoid direct sunlight

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## Product Specification Raya Hyaluron Tremella

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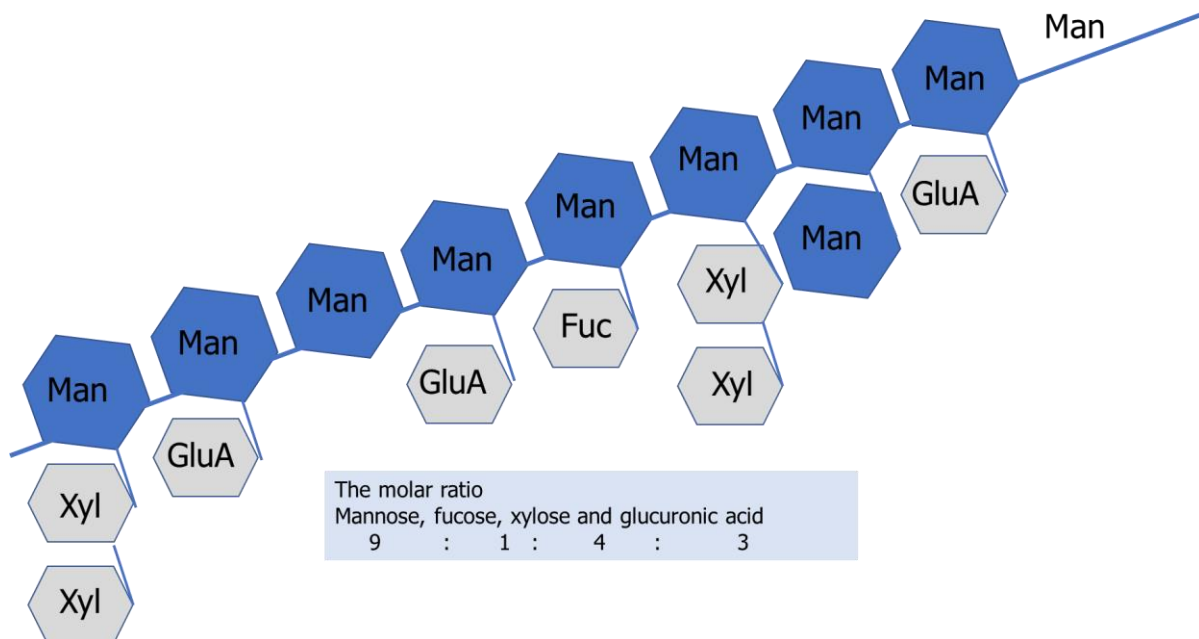
Test	Specification	Batch 201807141
<b>Appearance</b>	white to light yellow powder or granule	conforms
<b>Odour</b>	slight characteristic odour or odourless	conforms
<b>Molish reaction</b>	amaranth or peachblow	conforms
<b>Assay of glucuronic acid</b>	13.0 ~ 30 %	21.6 %
<b>pH</b>	5.5 ~ 8.0	7.0
<b>Loss on drying</b>	≤ 10.0 %	3.8 %
<b>Residue on ignition</b>	≤ 10.0 %	conforms
<b>Molecular weight</b>	<b>&gt; 1000 k Da</b>	<b>1280 k Da</b>
<b>Dynamic viscosity (0.5 % aq.sol., 25 °C 2/6 rpm)</b>	> 1200 mPa.s	1560 mPa.s
<b>Protein</b>	< 0.1 %	0.04 %
<b>Heavy metal (as Pb)</b>	< 20 mg/kg	conforms
<b>Bacteria counts</b>	< 200 cfu/g	conforms
<b>Molds &amp; yeasts</b>	< 100 cfu/g	conforms
<b>Staphylococcus aureus</b>	negative	negative
<b>Pseudomonas aeruginosa</b>	negative	negative

## MORE INFORMATION

Raya Hyaluron Tremella is a new type of plant derived high efficiency humectant extracted from Fungus fuciformis . It is a kind of water soluble polymer, the average molecular weight is over one million Da, and the molecular structure backbone is Mannan made up by alpha (1-3) - glycosidic bond composition, and the branched chain by glucuronic acid, xylose and fucose . The active part is common structural part of alpha (1-3) - mannan.

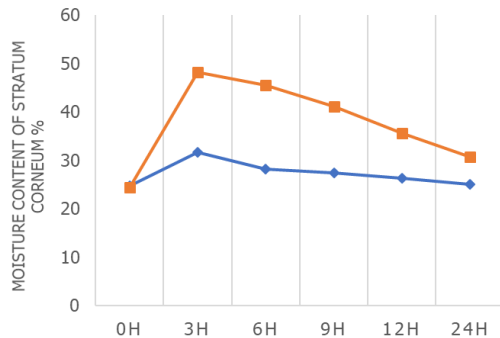


### Chemical Structure of the white fungus extract

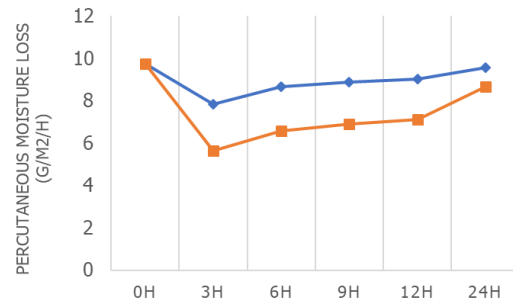


## Efficacy - Efficient Moisturizing - (water retention)

Raya Hyaluron Tremella can significantly enhance the absorption of water in the skin cell, increase the moisture content of skin. Forms a layer of moisturizing protective film to reduce the moisture loss on the surface of the skin.



3h later after using, the moisture content increased as below:  
Raya Hyaluron Tremella: Group: 97.1%  
Water Control Group: 27.8%



3h later after using, the percutaneous moisture loss decreased as below:  
Raya Hyaluron Tremella Group: 42.0%  
Water Control Group: 19.5%

## Efficacy

### ● Antioxidation and anti-aging

With the certain ability of scavenging superoxide radical and hydroxyl radical, it prevents skin from aging by inhibiting peroxidation, and promote skin regeneration by increasing the vitality of the skin cells. So Tremella helps to delay the skin aging and repair damaged skin.

### ● Improve the skin feeling

Tremella is a kind of high molecular polymer, with good skin affinity and high viscosity. Lubricating effect is obvious after using the skin care products with Tremella added in, and the skin feels moist and smooth with no dry and tight feeling.

### ● Emulsifying impact

Tremella has a certain effect of emulsification. In the specific formula application, it replaces the partial emulsifier and reduces the actual consumption of emulsifier.

## Product description

- ◆ Recommended dosage: 0.01%-0.5%
- ◆ Usage: soluble in water, can be directly added into the aqueous phase.
- ◆ Applications: especially for essence, mask, cream, lotion, toner and other cosmetics.

## Feuchtigkeitseffekt (Corneometrie)

