

# Biomer



**Vegetable origin thickener for the easy preparation of cosmetic gels.**

# Biomer



Biomer is a modified vegetable polymer suitable for preparation of cosmetic gels or viscous systems. With its tridimensional polymeric structure you can obtain viscous-elastic gels, that are not "hard", but with pleasant skin touch and toxicologically safe. This natural thicker is totaly and easily biodegradable. Phytomer is a vegetable biopolymer obtained from potato, mais or rice starch. The used starch is modified replacing hydroxyl groups with carboxyl groups which, saltified, allow an easy solubility of the molecula with consequent spontaneous viscosity formation. Biomer solutions are viscous-elastic, similar to polycarboxylic structures obtained by the well known Carbomer, but this one is not compatible with biological cosmetic.

# Use

To obtain elastic and not flowing gels with Biomer is very easy: is enough to add the product in water under stirring, up to attain expected viscosity, within 5-10 minutes. Be wary that a strong homogenization reduce sensively the viscosity. Also Biomer, like Carbomer, is sensible to electolytes, so it's easy to assist to a loss of viscosity when salts are present. An important charatteristic is the effect on skin texture, similar to silicone, when used at 0.3-0.5%. The viscosity produced by Biomer is thermo-stable and there are no significative variations at max. and min. of range temperature Biomer can advantageously be used to stabilize emulsions subject to thermic stress.

INCI NAME:

**Potato starch modified:**  
CAS: - Einecs: biopolimer

**CHEMICAL-PHYSICAL DATA**

Appearance at 20 °C: Flowing powder  
Color: White  
Odor: Neutral  
Drying loss in weight: Max 7%  
pH Value (sol.1%): 6-8  
Sodium chloride: max 0,8%  
Heavy metals: Inf.to 20 ppm  
Iron: Inf.to 20ppm  
Diameter particeles: 5 ìm -70ìm  
nitrogen N2: 0,8 - 1,2%%  
Viscosity:

	1,0%	1,5%	2,0%
Vis.mPas	7.-11.000	12.-18.000	>21000

**MICROBIOLOGICAL DATA:**  
Inf.a 100 UFC/g

**PACKAGING SIZE**  
Box of 25 kg.



# Formulation examples

## Skin-friendly de make up gel

1. BIOMER: 1%
2. Liposine Glyglu (Maycos):3%
- 3 Camomile glyceric extract:1%
- 4 Achillea glyceric extract::1%
- 5.Sodium PCA:1%
- 6.Preservative:
- 8.Perfume
- 9.Water to 100%

### Working process

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- 1.Charge water and under stirring add PHYTOMER ROCK. Stir to complete solubilization.
- 2.Add all other ingredients.
- 3.Check that product is conform to standards.

## Skin-friendly de make up gel

Appearance at 20 °C: translucent viscous gel  
Color: none  
Odor:pleasant  
PH value :6.5-7.5  
Viscosity at 20 °C S5 rpm: 5.800 mPa.s  
Stability:  
+45 °C:ok  
+4 °C:ok



## Styling gel nature

Appearance at 20 °C:gel viscous and traslucent  
Color: none  
Odor:pleasant  
pH Value:6.5-7.5  
Viscosity 20 °C S5V5: 11.000 mPa.s  
Stability:  
+45 °C:ok  
+4 °C:ok

## Styling gel nature

- 1.BIOMER: 2%
- 2.Polyvinylpyrrolidone K 30:3%
- 3.Propylene glycol:5%
- 4.Hydrolized wheat protein 20%:2%
- 5.Water to 100%
- 6.Perfume
- 6.Preservative

### Working process

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1. Charge water and under stirring add BIOMER.
- 2.Apart dissolve PVP K 30 in Propylene glycol at 50 °C and add to point 1.
- 3 Add all other ingredients..

## Anti cellulitis gel bio

- 1.BIOMER:1.6%
- 2.Escin:0.5%
- 3.Ivy gliceric extract:2%
- 4.Natisol (Sinerga):0.5%
- 5.CLA Carnitine (Kalichem):2%
- 6..Water to 100%
- 7.Perfume
- 8.Preservative

### Working process

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- 1.Charge water and under stirring add BIOMER. Stir to complete solubilization.
- 2.Add all other ingredients.
- 3.Check that product is conform to standards.



## Anti cellulitis gel bio

Appearance at 20 °C:gel viscous and traslucent  
Color: none  
Odor:pleasant  
pH Value:6.5-7.5  
Viscosity 20 °C S5V5: 7.600 mPa.s  
Stability:  
+45 °C:ok  
+4 °C:ok



**maycos**  
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