

# Carboxymethyl- glucan

Beauty from yeasts

- ✔ CHINA COMPLIANT
- ✔ MICROBIOME FRIENDLY

INCI: SODIUM CARBOXYMETHYL BETA-GLUCAN



# Who We Are

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*World leader in research  
and manufacturing  
of hyaluronic acid.*

*Innovator in biotechnologies  
since 1990.*

*Reliable partner of **successful  
brands.***



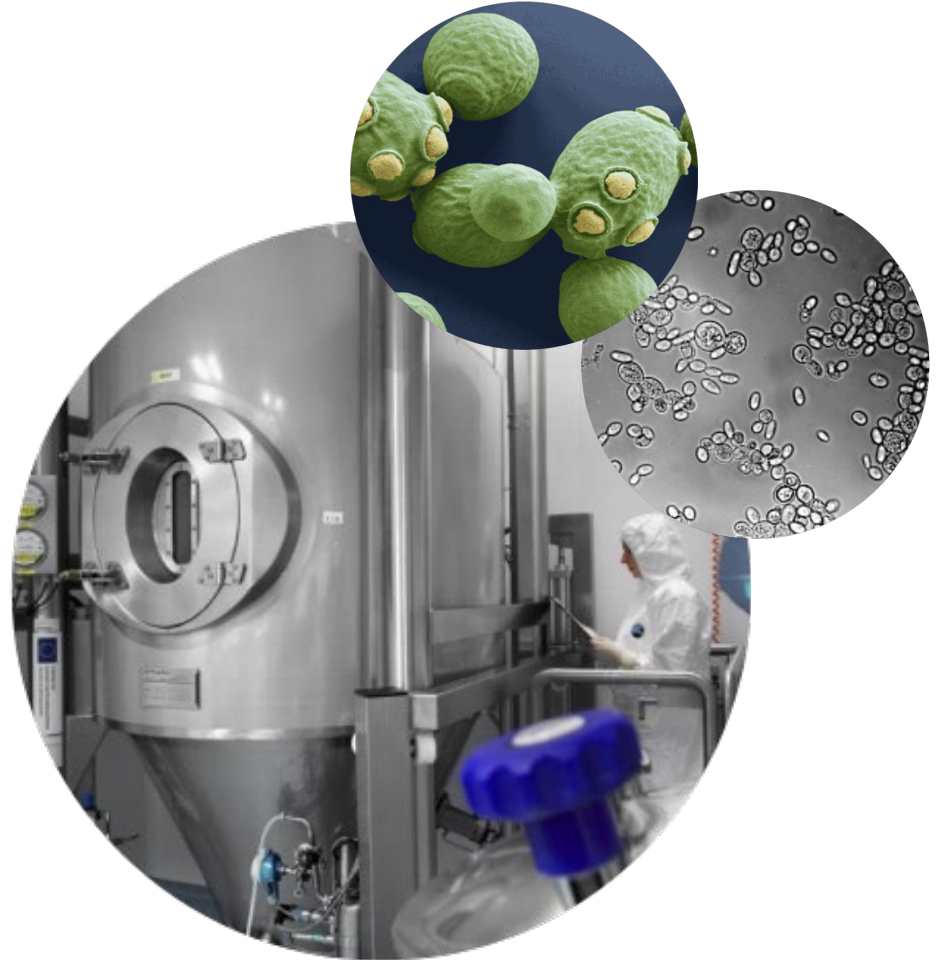
# Production of CMG in Contipro

## Sustainable biotech production

CMG is obtained by chemical modification of insoluble beta-glucan isolated from the cell walls of yeast *Saccharomyces cerevisiae* (baker's yeast) cultivated in special growth medium under well-defined conditions.

## Environmental friendly production

- Everything we make is **biodegradable**.
- We have our own **solar power plant** and **wastewater treatment plant**.
- Our buildings are **heated with residual energy** from our production operations.



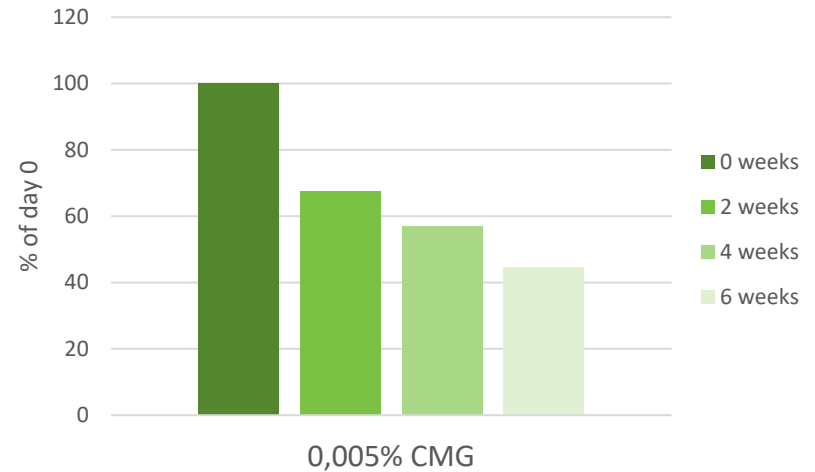


TEXTURE  
IMPROVEMENT

55%

PORES REDUCTION

## In vivo study by Contipro



CMG (0,005%) in emulsion, face, 8 volunteers.  
Number of visible pores determined by  
VisioFace 1000D

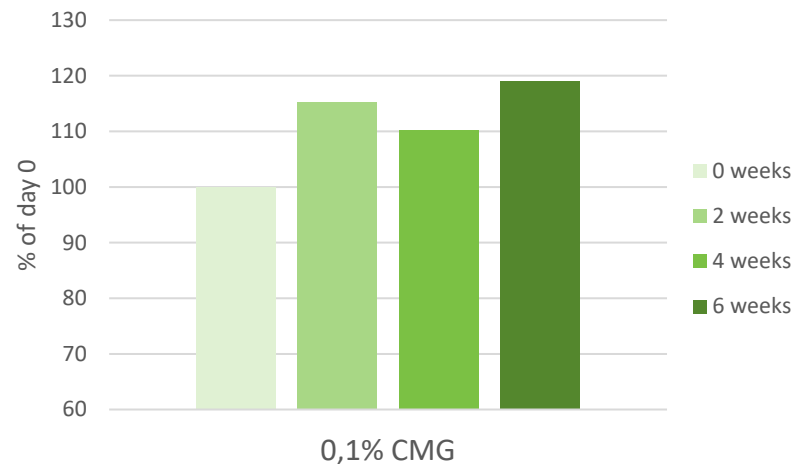


COLLAGEN  
INCREASE

19%

COLLAGEN FIBERS  
INCREASE

### *In vivo study by Contipro*



CMG (0,1%) in emulsion, face, 30 volunteers.  
Number of collagen fibers determined by  
Vivascope 3000

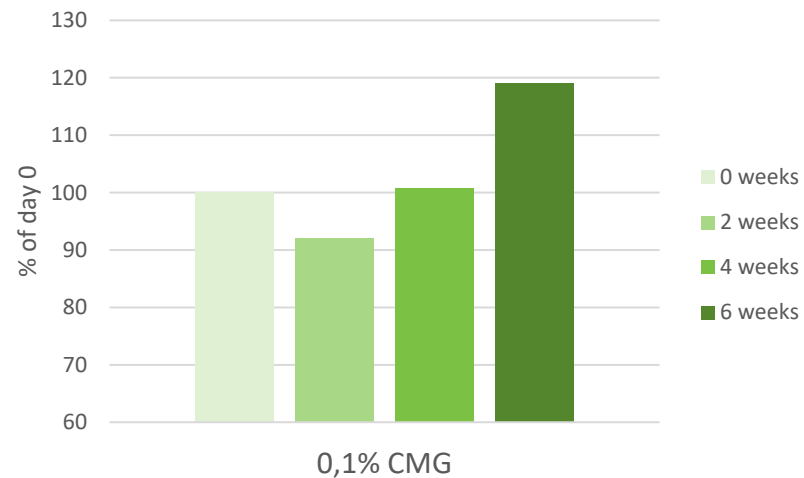


ELASTICITY

19%

ELASTICITY  
IMPROVEMENT

## *In vivo study by Contipro*



CMG (0,1%) in emulsion, face, 30 volunteers.  
R5 parameter determined by cutometer  
(Courage and Khazaka electronics)

# Additional advantages of CMG

- \* Anti-inflammatory and anti-oxidant properties
- \* Skin microbiome support
- \* Hydration and skin barrier improvement
- \* Wrinkle reduction
- \* Anti-pollution effect



# CMG:

## Collected technical data

- **INCI name:** Sodium Carboxymethyl Beta-Glucan
- **Supplied form:** powder
- **Samples:** 1 g
- **Minimal ordering quantity:** 1 kg  
(If ordering smaller quantities, price can increase due to handling fees)
- **Recommended concentration in final products:**  
0.01 – 0.1 % of powder  
(safety tests up to 2%)
- **Shelf-life:** 24 months
- **Source:** Carboxymethylglucan is obtained by chemical modification of insoluble beta-glucan isolated from the cell walls of yeast *Saccharomyces cerevisiae* (baker's yeast) cultivated in special growth medium under well-defined conditions.
- **Compatibility and processing:** Stable in a broad range of pH (4–9). Stable at higher temperature (80 °C) for 45 minutes.
- **Solubility:** Carboxymethylglucan is soluble in water. Solution may be slightly turbid, the turbidity depends on the concentration. Soluble in the mixture of ethyl alcohol, isopropyl alcohol, propylene glycol and butylene glycol with water up to ratio 1:1. Insoluble in non-water miscible solvents.





# We Are Here to Help You

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