

# Schizophyllan

Beauty from mushrooms

- ✔ ECOCERT
- ✔ CHINA COMPLIANT
- ✔ MICROBIOME FRIENDLY

INCI: SCHIZOPHYLLAN



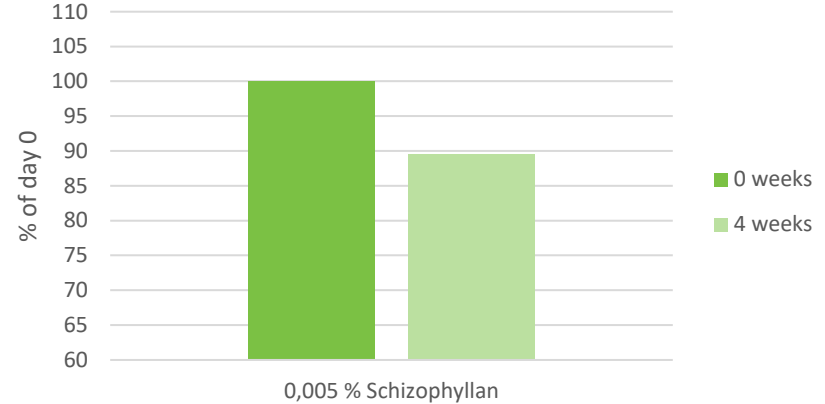


SOOTHING

11%

REDUCTION OF  
ERYTHEMA

*In vivo study  
by Contipro*



0,005% SCH in emulsion, face, 8 volunteers.  
Erythema index determined by MX 18  
mexameter (Courage and Khazaka electronics)

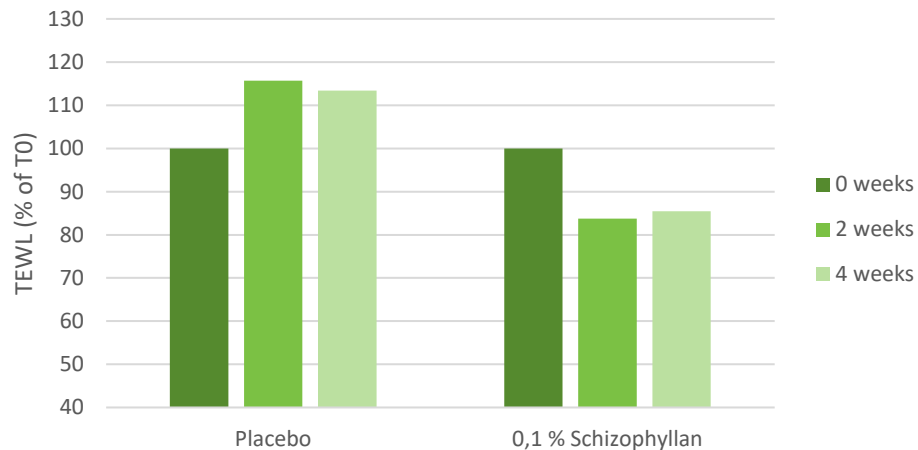


## SKIN BARRIER

# 25%

TEWL REDUCTION  
in comparison with the placebo

### In vivo study by Contipro



0,1% SCH in emulsion, face, 7 volunteers.  
TEWL determined by TM300 tewameter  
(Courage and Khazaka electronics)

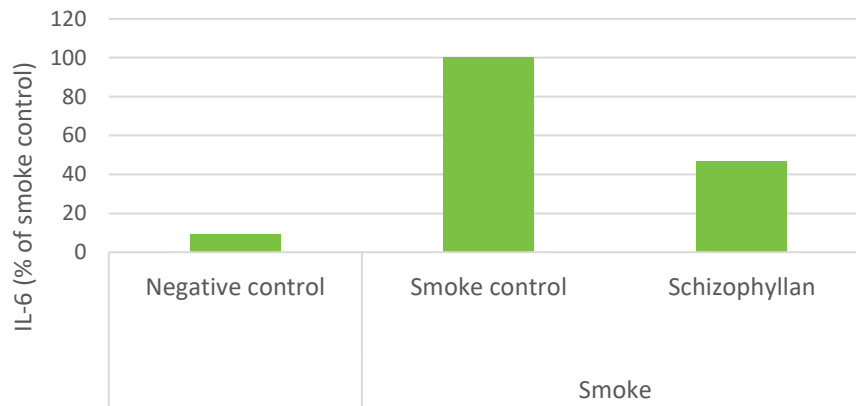


ANTI  
POLLUTION

30%

REDUCTION  
OF POLLUTION-INDUCED  
INFLAMMATION

## Study by Contipro



Skin explants incubated 24 h with 0,1% SCH, washed, air-dried and exposed to cigarette smoke. IL-6 expression determined by qRT-PCR

# Additional advantages of Schizophyllan

- \* Boosts immune defense system
- \* Increases hydration
- \* Supports skin microbiome
- \* Reduces Wrinkles
- \* Antioxidant properties



# Production of Schizophyllan in Contipro

## Sustainable biotech production

Made by cultivation of mycelium of selected *Schizophyllum commune* strain.

## 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.

## Natural product

Contipro's Schizophyllan has **natural index 1** (according to ISO 16128-1:2016 and 16128-2:2017)



# Schizophyllan: Collected technical data

- **INCI name:** Schizophyllan
- **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 1%)
- **Shelf-life:** 36 months
- **Source:** Cultivation of mycelium of selected Schizophyllum commune strain. Its molecular weight is reduced by special cleavage.
- **Compatibility and processing:** Compatible with all widely used cosmetic ingredients. Stable in a broad pH range (3–12). Stable at higher temperatures (80 °C) for more than 1 hour.
- **Solubility:** Soluble in water, forms viscous solutions. Dissolution in hot water is recommended as well as using a high shear mixer to fasten the process. Schizophyllan is able to form a microgel. Limited solubility in water/alcohol mixture. The alcohol concentration must be below 40 % for full solubility of Schizophyllan. Schizophyllan is insoluble in nonpolar solvents.



# 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.***





# We Are Here to Help You

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## ZUZANA JENÍKOVÁ

*Technical specialist  
for active ingredients*

E-mail:  
[jenikova@contipro.com](mailto:jenikova@contipro.com)



Contipro a.s. | Dolní Dobrouč 401, 561 02 | Czech Republic, European Union  
Phone: +420 465 519 530 | E-mail: [sales@contipro.com](mailto:sales@contipro.com) | [www.contipro.com](http://www.contipro.com)