

Schizophyllan

Beauty from mushrooms



ECOCERT



CHINA COMPLIANT

INCI: SCHIZOPHYLLAN



Who We Are

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

*Innovator in biotechnologies
since 1990.*

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



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)



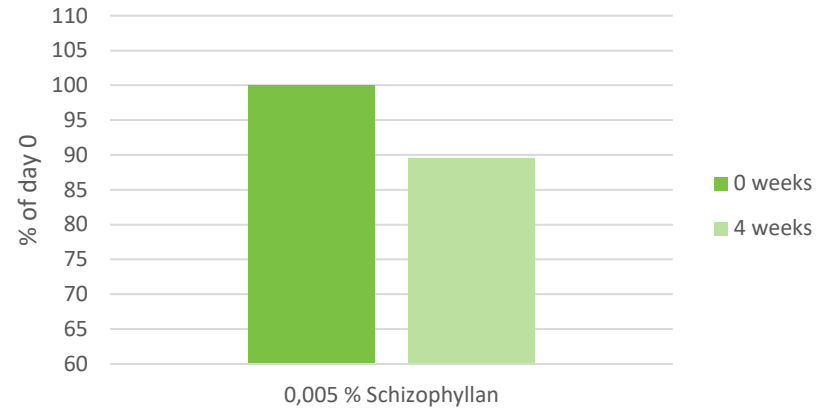


SOOTHING

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)

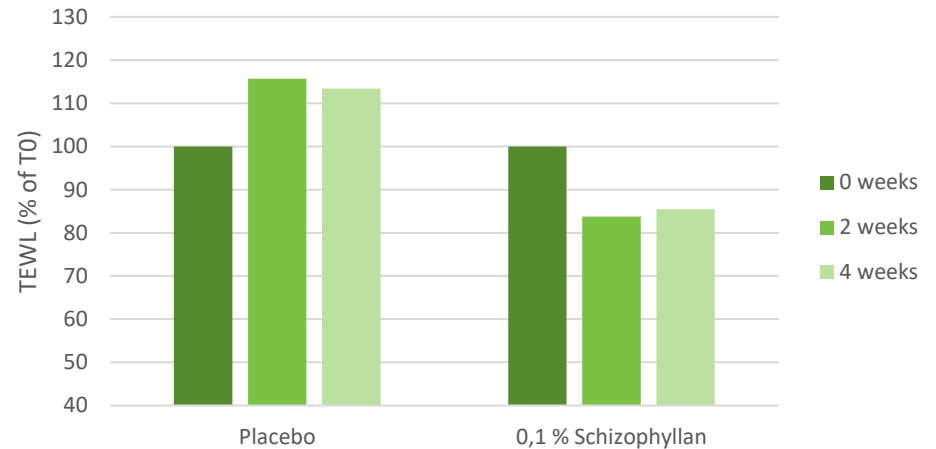


SKIN BARRIER

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)

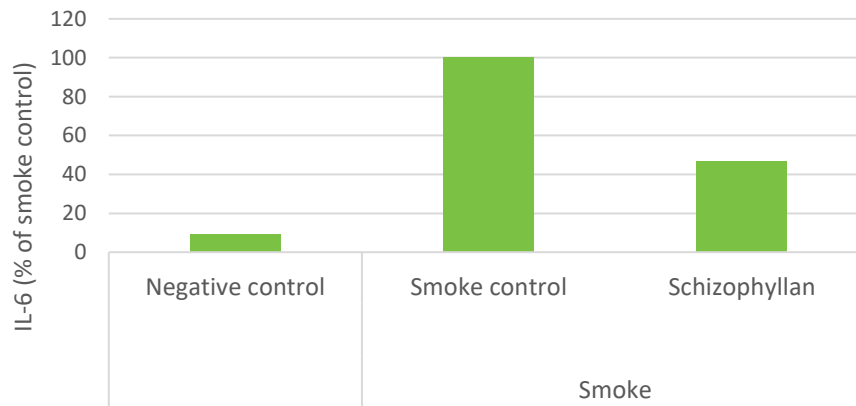


ANTI
POLLUTION

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



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.



We Are Here to Help You

LENKA HANUŠOVÁ

*Sales manager for world
market development*

E-mail:
hanusova@contipro.com



ZUZANA JENÍKOVÁ

*Technical specialist
for active ingredients*

E-mail:
jenikova@contipro.com

