

# PolluProtect

Premix based on the anti-pollution study



CHINA COMPLIANT



COSMOS

INCI:

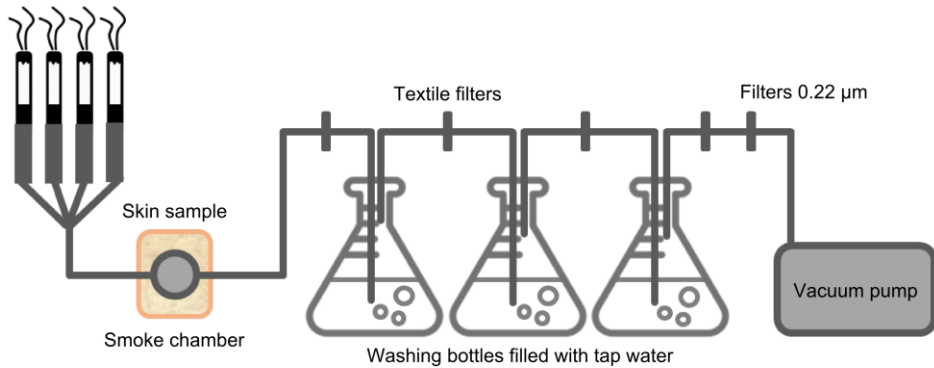
SODIUM HYALURONATE (HIGH AND LOW MOLECULAR WEIGHT), GLUCOMANNAN, SCHIZOPHYLLAN



# Anti-pollution testing in Contipro

## Experimental details:

Skin explants + Cigarette smoke (all important classes of air pollutants)



[Read the article](#)

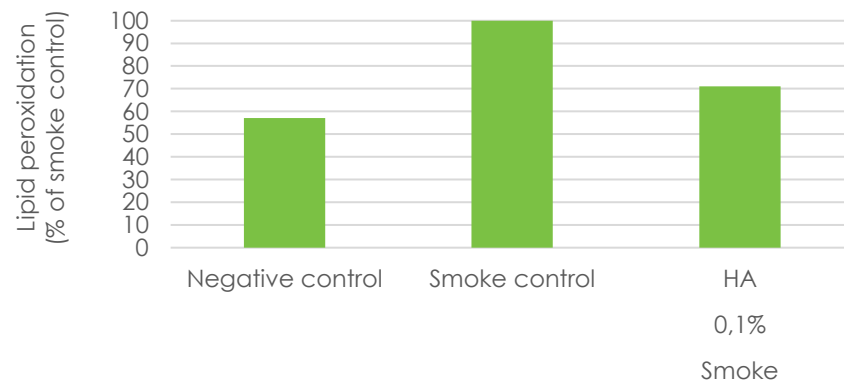


ANTI  
POLLUTION

30%

SKIN BARRIER  
LIPIDS PROTECTION

## Results for Hyaluronic acid (part of PolluProtect)



Skin explants incubated 24 h with Hyaluronic acid, washed, air-dried and exposed to cigarette smoke. Lipid peroxidation after 1 h determined using TBARS assay.

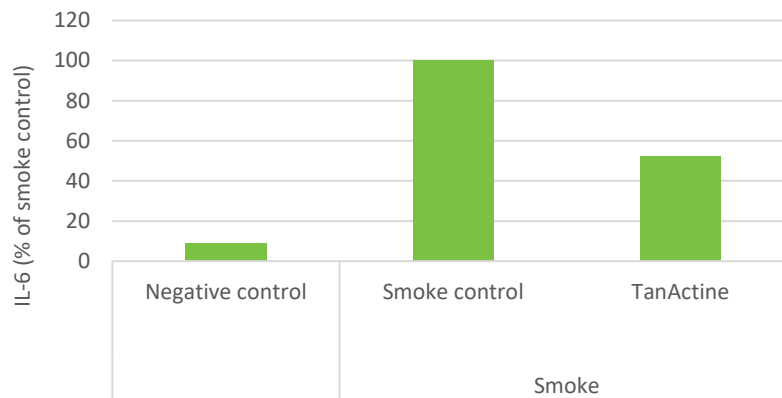


ANTI  
POLLUTION

48%

REDUCTION OF  
POLLUTION-INDUCED  
INFLAMMATION

## Results for TanActive (part of PolluProtect)



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

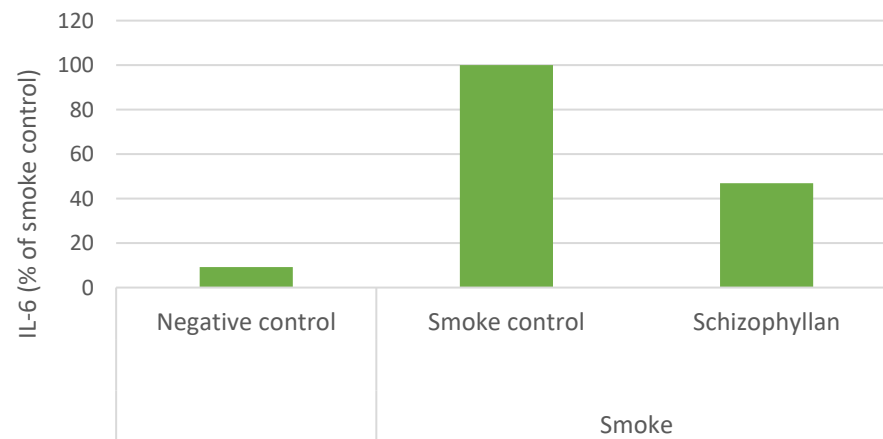


ANTI  
POLLUTION

30%

REDUCTION OF  
POLLUTION-INDUCED  
INFLAMMATION

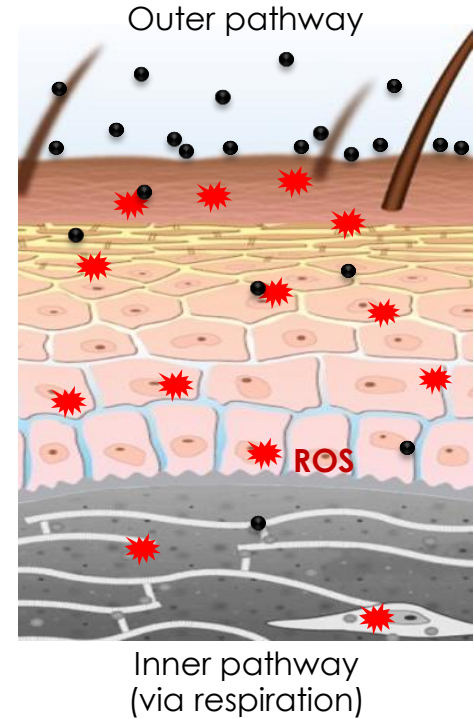
## Results for Schizophyllan (part of PolluProtect)



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

# PolluProtect: an anti-pollution blend

Ingredient	%	Anti-pollution activity
HA	50 %	<ul style="list-style-type: none"><li>Film-forming</li><li>Slight antioxidant properties</li></ul>
HySilk	20 %	<ul style="list-style-type: none"><li>Film-forming</li><li>Active skin barrier improvement</li></ul>
HyActive	10 %	<ul style="list-style-type: none"><li>Film-forming</li><li>Active skin barrier improvement</li><li>Increases epidermal thickness</li></ul>
Schizophyllan	10 %	<ul style="list-style-type: none"><li>Active skin barrier improvement</li><li>Anti-inflammatory</li></ul>
TanActive	10 %	<ul style="list-style-type: none"><li>Active skin barrier improvement</li><li>Anti-inflammatory</li><li>Reduction of UV-induced damage</li></ul>



# Production of PP in Contipro

## Sustainable biotech production

PP is a premix of biotechnologically prepared active ingredients

## Enviromental 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.

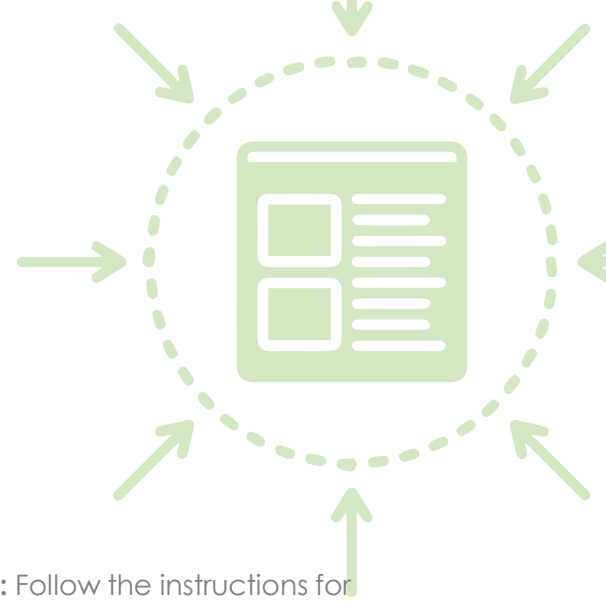




# PolluProtect:

## Collected technical data

- **INCI name:** Sodium Hyaluronate (high and low molecular weight), Glucomannan, 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:**  
0.05 – 0.1 % of powder  
(safety tests up to 1%)
- **Shelf-life:** 24 months
- **Compatibility and processing:** Follow the instructions for each active ingredient.
- **Solubility:** Soluble in water. It is also soluble in a mixture of water and ethylalcohol, isopropylalcohol propylene glycol or butylen glycol, but the alcohol concentration must be below 40 % for full solubility. Insoluble in solvents which are non-miscible with water.





# 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*

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