

# Pore Reductyl

## Pore refiner, astringent and moisturizer vegetal extract

**PORE REDUCTYL** is a purified, concentrated botanic active, extracted from the *Fomes Officinalis* Mushroom pulp (White Agaric Polyporaceae), a basidiomycete mushroom that grows on the trunk of Alerces.

It contains **agaric acid**, a natural astringent that overcomes all excessive secretion, smoothing, tightening and moisturizing the skin.

### INCI name

Water, butylene glycol, fomes officinalis (mushroom) extract

### Description

#### Fomes officinalis components and functions:



FAMILY: Fomitopsidaceae

GENUS: *Laricifomes*

SPECIES: *L. officinalis*

SYNONYMS: *Agaricum officinale*, *Agarikon*, *Boletus agaricum*, *Boletus laricis*, *Boletus officinalis*, *Boletus officinalis*, *Boletus purgans*, *Cladomeris officinalis*, *Fomes fuscatus*, *Fomes officinalis*, *Fomes officinalis*, *Piptoporus officinalis*, *Polyporus officinalis*, *Ungulina officinalis*,

COMMON NAMES: *Agarikon*, *Fomes officinalis*, *White Agaric*

BOTANICAL NAME: *Laricifomes officinalis*

### HABITAT

Wild Agarikon is only found in old-growth forests and grows on conifers.

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Conservation of wild populations of *L. officinalis* is a concern due to loss of ancient forest habitat.

Because it is difficult to maintain long-term genetic integrity of laboratory-grown strains, it is necessary to preserve the mushroom in the wild.

### DESCRIPTION

One of the longest living perennial mushrooms in the world, Agarikon (*Fomes officinalis*) can live for an astounding 50 years or more, a fact that's all the more impressive because it only grows on trees that are already old to begin with.

### TRADITIONAL USES

Throughout the ages, early Europeans and Central Asians traditionally used this species for treatment of many ailments and infectious diseases, including coughing illnesses, asthma, rheumatoid arthritis, bleeding, and infected wounds.

The key active compound found in *Fomes officinalis* is Agaricin (or agaric acid), a white, water-soluble powder that can be administered both orally and topically.

Agaricin is an anhidrotic, anti-inflammatory, astringent and parasympatholytic agent, and is now produced synthetically by many pharmaceutical companies.

Interestingly, the medicinal properties of *Fomes officinalis* are believed to have been discovered independently by the isolated Indigenous People of North America.

Fruiting bodies of *F. officinalis* are perennial: Each year (or so) a new layer of spore-producing tubes grows at the bottom of the conk. As for the great *Fomes officinalis*, although once common throughout most temperate regions of the world, it is now believed extinct in most of Europe and Asia. However, it can still be found deep within the old-growth forests of Washington, Oregon and British Columbia in the Pacific Northwest, and modern-day mycophiles continue to stress the importance of this valuable and historic polypore.

### Effects in Cosmetic Products

For every hair on our body, there is a corresponding skin pore with its corresponding sebaceous gland. Although we can't see all of these pores, we can see some of them.

We have around 5 million hairs on our body.

Maintaining clean, healthy skin pores is important for maintaining healthy (and healthy looking) skin.

The **sebaceous glands** are microscopic glands in the skin that secrete an oily/waxy matter, called **sebum**, to lubricate and waterproof the skin and hair of mammals.



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In humans, they are found in greatest abundance on the face and scalp, though they are distributed throughout all skin sites except the palms and soles.

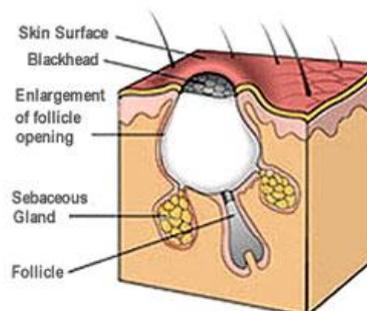
Sebum is made of triglyceride oils, wax, squalene, and metabolites of fat-producing cells.

Sebum keeps hair and skin supple. It is odorless, but its bacterial breakdown can produce odors. Sebum is the cause of some people's experiencing "oily" skin, and oily hair.

Skin cells are constantly dying inside the follicle. Small sebaceous glands located inside the follicle producing sebum, makes it travel up the follicle and exit through the pore. It also carries dead skin cells found within the follicle up to the skin's surface.

Maintaining clean, healthy skin pores is important for maintaining healthy and healthy looking skin.

The **excess of sebum, stress, smoking, environmental pollution**, all contribute to expansion and deformation of the skin pores. When pores get clogged, it creates a pile-up of oil and dead skin cells in the follicle. Soon, bacteria make their way to the blockage, and the growth in bacteria causes inflammation.



Oily skin is excessively shiny and may have large, dilated pores. The cosmetic interest in **PORE REDUCTYL** is to minimize the visible appearance of skin suffering from excess sebum secretion. It contains agaric acid, a **natural astringent** that overcomes all excessive secretion, smoothing, tightening and **moisturizing** the skin.

Agaric acid is also an astringent agent. This effect is immediately perceptible, as a local sensation of **cutaneous tightening**, and can produce an improvement of the skin's tone, or firmness. As we age, our skin's elasticity decreases.

Cellular activity slows in the epidermal basal layer, the skin's defense against Environmental attack is compromised, cell turnover and vitality decrease and the skin loses its firmness.

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The fight against loss of skin tone is preferably based on prevention, by helping the skin to defend itself against external attack.

**PORE REDUCTYL** produces an immediate tightening effect.

Other of the advantages of **PORE REDUCTYL** is that its astringency and pore tightening effect do not dry the skin, on the contrary, it moisturizes the stratum corneum, making the skin supple.

## **Dosage – Solubility – Processing**

A- DOSAGE:

From 2 to 5%.

B- SOLUBILITY:

Hydro-soluble.

C- PROCESSING:

PORE REDUCTYL is compatible with most of the raw materials normally used in cosmetics, nevertheless, it is the duty of the formulator to make sure of the stability of the formulae with the necessary tests.

## **Analytical Data**

- APPEARANCE: Limpid liquid. Light yellow-ambar
- PH VALUE: 5,0 – 6,0
- PRESERVATIVES: Parabene Free
- MICROBIOLOGY:
  - Total germs: <10 CFU
  - Pathogen: Absence
- TOLERANCE: Excellent.
- STORAGE: Product sampling under sterile conditions.  
Store in a cool place in closed original container.  
Temperatures between + 15 ° C and + 25 ° C  
Any opened packaging always be stored at + 4 ° C