

# Clever Fungus *Pythium oligandrum*

*Pythium oligandrum* is a microscopic algae that was discovered between the years of 1930–1932 by an American scientist Charles Dreschler. In 1965, effective strains of *Pythium oligandrum* were isolated from the soil by a Czech scientist Dáša Veselý, who focused mainly on plant protection.

*Pythium oligandrum* parasitically consumes other microscopic fungi and uses them for its maintenance and survival. *Pythium oligandrum* penetrates with its parasitic hyphae into the microorganism and withdraws nitrogen, carbon and nutrients for use in its own reproduction.

*Pythium oligandrum* produces zoosporangia containing 8 to 40 moving zoospores that actively seek the parasitic fungi.

Besides active mycoparasitism, *P. oligandrum* also produces enzymes that are primarily aimed at facilitating the penetration of hyphae into the target microorganisms. In addition, they create an environment that slows or even stalls bacterial growth, and thus the fungus also has a bacteriostatic effect.

When all food sources have been depleted, *P. oligandrum* forms characteristic spiny oospores encapsulating itself. It leaves its host by growing out with the skin, fur, or claws, as it is unable to either survive or feed on a healthy human or animal body. The resettlement of normal microflora on the skin, hair and other skin derivatives such as hooves and claws can then take place.

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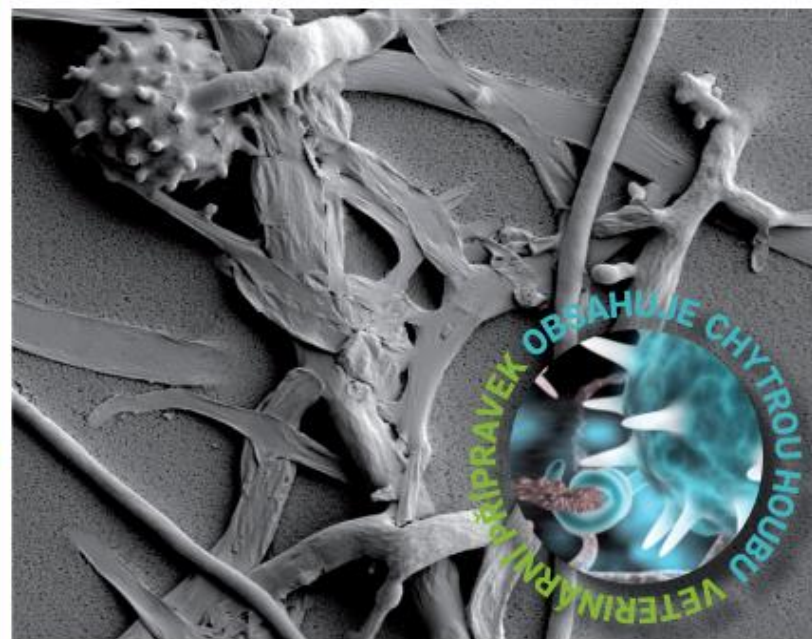
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**Patented technology**

# Clever Fungus Veterinary preparations



Fungal infections

Yeast infections

Paw and claw care

Hoof care, Horse thrush

Inflammatory skin patches

Atopic eczema

Skin defects and injuries, dry skin

Tooth and gum care

Clean ears

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***Pythium oligandrum***

# Clever Fungus Ecosin

A biological additive to a water spray or water bath that eliminates filamentous micromycetes and yeasts organisms on skin, hair and other skin derivatives (claws, hooves, hoofs, etc.).

- ◆ Suitable for care of skin, coat prone to dermatophytic (fungal) and yeast infections
- ◆ Suitable for promoting natural growth of microbial flora on the skin and coat
- ◆ Suitable for skin and coats prone to chafing
- ◆ Suitable for fighting symptoms of thrush in horses



## Clever Fungus Dermasin oil

Suitable for combining with veterinary product Ecosin. Suitable for skin and coat care. Especially suitable for dry skin prone to atopic eczema. Helps regenerate small deposits of damaged skin and can be a supplement after application of Ecosin. It softens the skin and thanks to its microflora content favourably affects the defence mechanisms of the skin of mammals, birds and terrestrial reptiles.

## Biomycosin Vet

Biomycosin Vet is a preparation applied in the form of a water based spray or water bath that has mycoparasitic effects in eliminating filamentous micromycetes and yeasts on the skin, hair and other skin derivatives, such as hooves. It's applied on the livestock by spraying with special attention to the affected areas.



## Pythie Dog Ear cleaner

This product is designed to gently clean the external ear canal. It dissolves cerumen (earwax) and impurities. It helps protect the external ear canal from microorganisms that can cause health problems. Relieves irritation. Moisturises the dried skin of the ear.



## Pythie Dog Fresh breath

Is composed of unique microorganisms with beneficial effects on the oral cavity. It is suitable for use in the care of gums and teeth in case of tendency to gum irritation and tartar formation, it also refreshes the breath.

## Pythie Dog Paw Balm

Softens and treats paws affected by salt or frozen snow, or by walking on uneven surfaces. Pythie Dog balm is used to maintain the skin of the dog's paws soft and supple. In case of injury, accelerates the healing process.



## Pythie Dog Veterinary ointment

The ointment is beneficial in the treatment of poorly healing surface wounds, minor skin and mucosal injuries, abrasions, insect stings, hard and scaly skin. Thanks to its composition, it suppresses the growth of bacteria and moulds, soothes the inflammatory reactions, suppresses the itching and smooths scars. It helps with recovery of affected areas and promotes growth of healthy coat.