

# Fungal Glossary



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## *Paecilomyces*

Natural Habitat

- ◆ Decaying plant matter
- ◆ Insects
- ◆ Soils

Suitable Substrates in the Indoor Environment

- ◆ Optical Lenses
- ◆ Leather
- ◆ Paper
- ◆ PVC
- ◆ Jute Fibers
- ◆ Tobacco

Water Activity

- ◆ Aw=0.79

Mode of Dissemination

- ◆ Wind

Allergenic Potential

- ◆ Type I (hay fever, asthma)
- ◆ Type III (hypersensitivity)

Potential Opportunist or Pathogen

- ◆ *P. variotii* causes paecilomycosis (symptoms include keratitis, cellulitis, and alveolitis).
- ◆ Corneal ulcers, keratitis, and endophthalmitis can occur after extended contact lens use or eye surgery due to *Paecilomyces* infection

Industrial Uses

- ◆ *Paecilomyces fumosoroseus* is currently marketed as a biocontrol insecticide

Potential Toxins Produced

- ◆ Byssochlamic acid
- ◆ Ferrirubin
- ◆ Fusigen
- ◆ Indole-3-acetic acid
- ◆ Paecilotoxins
- ◆ Patulin. variotin
- ◆ Viriditoxin

Other Comments

- ◆ *P. crustaceus* and *P. variotii* can grow well at temperatures as high as 50°C