

# Penta900 - The Best Solution!

**It doesn't just remove mold, — test labs report Penta900 is 100% effective.\***

Penta900 is human, animal and environmentally friendly and it complies with IICRC S520 standards. In many cases, with only one application, making it the fastest working, and as consistently reported in laboratory tests: repeatedly the most cost effective mold solution on the market.



## Anti Fungal Test #3

Colonies of *Cladosporium cladosporioides* and *Penicillium chrysogenum* exhibited 100% colony count reductions after 15 minutes exposure to Penta-900P and incubation for 72 hours.

Colonies of *Chaetomium globosum* exhibited a 100% colony count reduction after 30 minutes exposure to Mold Gold (Penta-900P) and incubation for 72 hours.

\* See full laboratory test results for complete details – Available at: [www.Penta900.com](http://www.Penta900.com)

Natural Link MOLD LAB

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## Analytical Laboratory Report

### Fungal Susceptibility Testing

Bulk sample

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Account Name:	Penta-900, Inc	Control ID#:	20035
Project/P.O.:	Product Testing, Penta-900P	Date Received:	02-23-2009
Submitter:	John Marlow	Date Reported:	03-24-2009

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#### Purpose:

To test the efficacy of an antifungal product Penta-900P to inhibit the growth of fungi. The organisms selected for this trial were *Chaetomium globosum* (EMPAT3F1-2008), *Cladosporium cladosporioides* (SA-W8-64) and *Penicillium chrysogenum* (SA-W11-11) from stock cultures and grown on Malt Extract Agar with chloramphenicol (MEA).

#### Fungal Susceptibility/Product Testing Protocol:

1. Prepare fungal suspensions.
  - 1.1. Swab surface of fungal colonies from stock cultures with a sterile swab and vortex in 1.00 mL sterile 0.01% Tween 80 solution for each of the three organisms being challenged. This master suspension will be used to prepare the primary suspensions.
  - 1.2. Prepare 15 mL sterile centrifuge tube with 9.90 mL 0.01% Tween 80 for each organism.
  - 1.3. Prepare 15 mL sterile centrifuge tube with 9.90 mL Penta-900P stock solution.
  - 1.4. Add 0.10 mL from one of the master suspensions to the previously prepared 0.01% Tween 80 (control) and a Penta-900P stock solution centrifuge tubes. This will bring the total volume to 10.00 mL. Do the same with the other two master suspensions. These are the primary suspensions and will be used in the serial dilutions to follow.
2. Prepare dilution series and incubate.
  - 2.1. Prepare serial dilutions and plate out on each organism on (MEA) plates to appropriate levels at 15, 30 and 60 minutes after preparing the primary suspensions.
  - 2.2. Plate out 1.00 mL 0.01% Tween 80 and 1.00 mL Penta-900P stock solution onto separate Malt Extract Agar with chloramphenicol (MEA) plates. This is a control to ensure the sterility of the 0.01% Tween 80 as well as the Penta-900P stock solution being used in the trials.
  - 2.3. Incubate plates for 72 hours at 25° C.
3. Count colonies and report.
  - 3.1. Visually and microscopically confirm fungal colonies recovered are the challenge organisms.
  - 3.2. Count colonies on appropriate dilution plates and calculate CFU's/mL. Report counts and percent reduction in CFU/mL from the Penta-900P solution stock solution (challenge) versus the Tween 80 solution (control).

Report#: 20035-R03      Analysis Date: 03-23-2009  
Laboratory Results authorized by Sean P. Abbott, Ph.D., Analytical Director

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**Results:**

**Sample Identification:** *Chaetomium globosum*; MEA plate

<u><i>Chaetomium globosum</i></u>	<u>CFU/mL</u>	<u>Percent Reduction</u>
Control	41 000	
Penta-900P 15 minutes	2 800	93.2
Penta-900P 30 minutes	< 10	100
Penta-900P 60 minutes	< 10	100

**Sample Identification:** *Cladosporium cladosporioides*; MEA plate

<u><i>Cladosporium cladosporioides</i></u>	<u>CFU/mL</u>	<u>Percent Reduction</u>
Control	5 400 000	
Penta-900P 15 minutes	< 10	100
Penta-900P 30 minutes	< 10	100
Penta-900P 60 minutes	< 10	100

**Sample Identification:** *Penicillium chrysogenum*; MEA plate

<u><i>Penicillium chrysogenum</i></u>	<u>CFU/mL</u>	<u>Percent Reduction</u>
Control	35 000 000	
Penta-900P 15 minutes	< 10	100
Penta-900P 30 minutes	< 10	100
Penta-900P 60 minutes	< 10	100

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## Summary of Findings:

- *Chaetomium globosum* treated with Penta-900P were able to grow on Malt Extract Agar with chloramphenicol (MEA) at low levels relative to the control at 15 minutes of exposure. *Chaetomium globosum* treated with Penta-900P were unable to grow on Malt Extract Agar with chloramphenicol (MEA) at 30 and 60 minutes of exposure.
- *Cladosporium cladosporioides* treated with Penta-900P were unable to grow on Malt Extract Agar with chloramphenicol (MEA) at 15, 30 and 60 minutes of exposure.
- *Penicillium chrysogenum* treated with Penta-900P were unable to grow on Malt Extract Agar with chloramphenicol (MEA) at 15, 30 and 60 minutes of exposure.
- Fungi not treated (control) with Penta-900P exhibited extensive fungal growth on Malt Extract Agar with chloramphenicol (MEA) at 15, 30 and 60 minutes of exposure.
- Sterility Test: No growth was detected on the untreated 0.01% Tween 80 solution. No growth was detected on the untreated Penta-900P.

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