

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 #4 (Wood and Drywall)

This test aimed to demonstrate efficacy on porous surfaces. Samples of both wood and drywall were incubated with fungal colonies of *Stachybotrys chartarum*, *Alternaria alternata*, and *Aspergillus fumigatus*. The colonies were treated with two applications of Penta-900 before being incubated for 7 days. Colonies of *Stachybotrys chartarum* and *Alternaria alternata* treated for 1 hour exhibited a 100% reduction in colony count on both wood and drywall. Colonies of *Aspergillus fumigatus* treated for 1 hour showed a colony count reduction of 99.9% on drywall, and 98.4% on wood (with a 99.8% reduction for the 3 hour treatment).

* See full laboratory test results for complete details – Available at: www.Penta900.com

Analytical Laboratory Report

Bulk Sample	Antifungal Product Testing	18952-R01 *
Bulk Sample	Antifungal Product Testing	18952-R02 *
Bulk Sample	Antifungal Product Testing	18952-R03 *
Bulk Sample	Antifungal Product Testing	18952-R04

PARTIAL REPORT

Project/PO: (Antifungal Product Testing)

Control ID # 18952

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Sean P. Abbott, Ph.D.

Analytical Director, Natural Link MOLD LAB, Inc.

AIHA (EMPAT) Laboratory Identification: 162969

Texas Department of State Health Services, Mold Analysis Laboratory License Number: LAB0146



Report submitted to:

Penta-900, Inc.
3208 W. Desert Inn Road
Las Vegas, NV 89102
(702) 310-5437

* These reports not included under this cover.

5. Prepare dilution series for each challenge sample and incubate.
 - 5.1. At 1 hour after second Penta-900 application swab 1 cm² from each challenge sample and vortex in 1 ml 0.01% Tween 80 solution in a test tube.
 - 5.2. Plate out sample from test tube in a dilution series on Malt Extract Agar with chloramphenicol (MEA).
 - 5.3. At 3 hours after second Penta-900 application swab 1 cm² from each challenge sample and vortex in 1 ml 0.01% Tween 80 solution in a test tube.
 - 5.4. Plate out sample from test tube in a dilution series on Malt Extract Agar with chloramphenicol (MEA).
6. Examine plates and report growth.
 - 6.1. At 7 days examine the negative control samples to confirm no growth.
 - 6.2. At 7 days examine the positive control samples to confirm growth. Report colony counts.
 - 6.3. At 7 days examine challenge samples for growth. Report colony counts.

Results:

Sample Identification: *Alternaria alternata*; MEA plate

<i>Alternaria alternata</i>	Wood (CFU/cm ²)	Drywall (CFU/cm ²)
Control	16 000	9 000
Penta-900 1 Hour after second application	< 10	< 10
Percent Reduction	100	100
Penta-900 3 Hours after second application	< 10	< 10
Percent Reduction	100	100

Sample Identification: *Aspergillus fumigatus*; MEA plate

<i>Aspergillus fumigatus</i>	Wood (CFU/cm ²)	Drywall (CFU/cm ²)
Control	3 400 000	2 100 000
Penta-900 1 Hour after second application	54 000	140
Percent Reduction	98.4	99.9
Penta-900 3 Hours after second application	6 500	70
Percent Reduction	99.8	99.9

Report#: 18952-R04 Analysis Date: 12-08-2008
 Laboratory Results authorized by Sean P. Abbott, Ph.D., Analytical Director

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Sample Identification: *Stachybotrys chartarum*; MEA plate

<u><i>Stachybotrys chartarum</i></u>	<u>Wood</u> (CFU/cm ²)	<u>Drywall</u> (CFU/cm ²)
Control	220 000	170 000
Penta-900 1 Hour after second application	< 10	< 10
Percent Reduction	100	100
Penta-900 3 Hours after second application	< 10	< 10
Percent Reduction	100	100

Summary of Findings:

- *Alternaria alternata* growing on building materials treated with Penta-900 were unable to grow on Malt Extract Agar with chloramphenicol (MEA) at 1 and 3 after second application with 5 days of drying between applications.
- *Aspergillus fumigatus* growing on building materials treated with Penta-900 were able to grow on Malt Extract Agar with chloramphenicol (MEA) at 1 and 3 after second application with 5 days of drying between applications.
- *Stachybotrys chartarum* growing on building materials treated with Penta-900 were unable to grow on Malt Extract Agar with chloramphenicol (MEA) at 1 and 3 after second application with 5 days of drying between applications.
- Fungi not treated (control) with Penta-900 exhibited extensive fungal growth on Malt Extract Agar with chloramphenicol (MEA).
- Sterility Test: No growth was detected on the uninoculated (negative control) building materials.

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