

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 #2

Colonies of the fungi *Chaetomium globosum*, *Cladosporium cladosporioides*, and *Penicillium chrysogenum* were treated for 1 hour and 3 hours with Penta-900 and then incubated at 25°C. Colony counts were taken after 3 days and again after 30 days. The results demonstrate a 100% colony count reduction at both 3 days and 30 days for each fungi species.

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



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Report # F076258
Job# CH1000-3380
Product Testing: Penta-900

Date received: 10/30/2008
Date first analyzed: 11/06/2008
Date last analyzed: 12/02/2008
Date printed: 12/03/2008

Sample type: Bulk (Penta-900, liquid)
Analysis: Fungal Susceptibility/Product Testing

Protocol:

1. Prepare fungal spore suspensions:
 - 1.1. Swab surface of fungal colony from stock culture with a sterile swab. Vortex in 1.00 mL sterile 0.01% Tween 80 solution. Repeat for each organism to be tested. These are the master suspensions.
 - 1.2. Prepare one 15 mL sterile centrifuge tube with 4.90 mL 0.01% Tween 80 for each organism to be tested. These are the control tubes.
 - 1.3. Prepare one 15 mL sterile centrifuge tube with 4.90 mL Penta-900 for each organism to be tested. These are the challenge tubes.
 - 1.4. Add 0.10 mL from one of the master suspensions to a control tube, and 0.10 mL to a challenge tube. Repeat for each organism to be tested. These are the primary suspensions to be used below.
2. Prepare dilution series:
 - 2.1. Prepare serial dilutions for each organism to be tested, for both control and challenge preparations.
 - 2.2. At 1 hr after making the primary suspension: plate 1.00 mL of each dilution for each organism to be tested onto Malt Extract Agar with 0.01% chloramphenicol (MEA); plate in replicate.
 - 2.3. At 3 hr after making the primary suspension: plate 1.00 mL of each dilution for each organism to be tested onto MEA; plate in replicate.
 - 2.4. Control: plate 1 mL of the untreated Penta-900 and 1 mL of 0.01% Tween 80 used for the above preparations onto MEA.
3. Incubate plates for 72hr at 25°C. Colony count and preliminary report:
 - 3.1. Visually and microscopically confirm fungal colonies recovered are challenge organisms.
 - 3.2. Count colonies on appropriate dilution plates (take the average of the two replicates) and calculate CFU/mL. Report percent reduction in CFU/mL from the challenge vs the control solution.
4. Return plates to incubator and incubate for another 27 days. Colony count and final report:
 - 4.1. Visually and microscopically confirm fungal colonies recovered are challenge organisms.
 - 4.2. Count colonies on appropriate dilution plates (take the average of the two replicates), and calculate CFU/mL. Report percent reduction in CFU/mL from the challenge vs the control solution.



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Results:

Organism tested: *Chaetomium globosum* (plated on MEA, lot W80-08253, exp. 12/08/08)

	CFU/mL	Percent reduction
Control	13 725	
Penta-900, 1 Hr - 72hr incubation	<1	100%
Penta-900, 1 Hr - 30d incubation	<1	100%
Penta-900, 3 Hr - 72hr incubation	<1	100%
Penta-900, 3 Hr - 30d incubation	<1	100%

Organism tested: *Cladosporium cladosporioides* (plated on MEA, lot W80-08253, exp. 12/08/08)

	CFU/mL	Percent reduction
Control	242 500	
Penta-900, 1 Hr - 72hr incubation	<1	100%
Penta-900, 1 Hr - 30d incubation	<1	100%
Penta-900, 3 Hr - 72hr incubation	<1	100%
Penta-900, 3 Hr - 30d incubation	<1	100%

Organism tested: *Penicillium chrysogenum* (plated on MEA, lot W80-08253, exp. 12/08/08)

	CFU/mL	Percent reduction
Control	232 500	
Penta-900, 1 Hr - 72hr incubation	<1	100%
Penta-900, 1 Hr - 30d incubation	<1	100%
Penta-900, 3 Hr - 72hr incubation	<1	100%
Penta-900, 3 Hr - 30d incubation	<1	100%

Control – 0.01% Tween 80: No growth at 72hr, 7d, 30d
Control – Penta-900: No growth at 72hr, 7d, 30d



Summary:

- Following 72hr of incubation at 25°C on MEA, spores of *Chaetomium globosum*, *Cladosporium cladosporioides*, and *Penicillium chrysogenum* were unable to germinate following initial treatment with Penta-900/1hr of exposure and treatment with Penta-900/3hr of exposure.
- Following 72hr of incubation at 25°C on MEA, spores of *Chaetomium globosum*, *Cladosporium cladosporioides*, and *Penicillium chrysogenum* exhibited normal growth.
- Following 30 days of incubation at 25°C on MEA, spores of *Chaetomium globosum*, *Cladosporium cladosporioides*, and *Penicillium chrysogenum* were unable to germinate following initial treatment with Penta-900/1hr of exposure and treatment with Penta-900/3hr of exposure.
- Control: no growth was detected on untreated 0.01% Tween 80 solution, nor on untreated Penta-900 throughout the timeline of this experiment.

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