

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 Bacterial Test #3

Colonies of Salmonella enterica and a Methicillin-resistant strain of Staphylococcus

aureus exhibited 100% colony count reductions after 5 minutes exposure to

Penta-900P and incubation for 48 hours. Colonies of Bacillus cereus exhibited a 99.6%

colony count reduction after 5 minutes exposure to Penta-900P and incubation for 48

hours.

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

Natural Link MOLD LAB

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Analytical Laboratory Report
Bacterial Susceptibility Testing
Bulk sample

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

Purpose:

To test the efficacy of an antibacterial product (Penta-900P) to inhibit the growth of bacteria. The organisms selected for this trial were *Bacillus cereus* (SAB177), *Salmonella enterica* (ATCC10708) and a Methicillin-resistant strain of *Staphylococcus aureus* (MRSA) (SAB176). The *S. enterica* (ATCC10708) was grown on SS agar. The *B. cereus* (SAB177) and *S. aureus* (SAB176) was grown on Tryptic Soy agar (TSA).

Bacterial Susceptibility/Product Testing Protocol:

1. Prepare Bacterial suspensions.
 - 1.1. Swab surface of bacterial colonies from stock cultures with a sterile swab and vortex in 1.00 mL sterile deionized water for each organism being challenged. This master suspension will be used to prepare the primary suspensions.
 - 1.2. Prepare 5 mL sterile test tube with 0.99 mL sterile deionized water for each organism.
 - 1.3. Prepare 5 mL sterile test tube with 0.99 mL with well mixed Penta-900P for each organism.
 - 1.4. Add 0.01 mL from one of the master suspensions to the previously prepared sterile deionized water (control) test tube and a Penta-900P (challenge) test tube. This will bring the total volume to 1.00 mL. Do the same with the other 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 the *S. enterica* on the SS agar and the *B. cereus* and *S. aureus* on TSA to appropriate levels at 5, 15, 30 minutes after preparing the primary suspensions.
 - 2.2. Plate out 1.00 mL sterile deionized water and 1.00 mL Penta-900P to separate Tryptic Soy Agar (TSA) plates. This is a control to ensure the sterility of the sterile deionized water as well as the Penta-900P being used in the trials.
 - 2.3. Incubate the *S. enterica* plates for 48 hours at 37° C.
 - 2.4. Incubate the *B. cereus* and *S. aureus* plates for 48 hours at 25° C
3. Count colonies and report.
 - 3.1. Visually and microscopically confirm bacterial 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 (challenge) versus the sterile deionized water (control).

Report#: 20035-R01 Analysis Date: 03-20-2009
Laboratory Results authorized by Sean P. Abbott, Ph.D., Analytical Director

Natural Link MOLD LAB, Inc. reports sample results as a record of the microbes identified by our analytical staff. Any guidance given with regards to sampling methods, interpretation of results, remediation, health effects, or other information given to the client, beyond microbial identification, is given as general information from published sources and is not an extension of liability to Natural Link MOLD LAB, Inc. Natural Link MOLD LAB, Inc. establishes responsibility over analysis completed in the laboratory but cannot establish responsibility for activities completed in the field by the client, other personnel associated with the samples submitted, or other activities beyond the laboratory. All reports are confidential and are not to be reproduced, except in whole, without the permission of Natural Link MOLD LAB, Inc.

Results:

Sample Identification: *Bacillus cereus*; TSA plate

<u><i>Bacillus cereus</i></u>	<u>CFU/mL</u>	<u>Percent Reduction</u>
Control	5 800 000	
Penta-900P 5 minutes	24 000	99.6
Penta-900P 15 minutes	21 000	99.6
Penta-900P 30 minutes	15 000	99.7

Sample Identification: *Salmonella enterica*; SS plate

<u><i>Salmonella enterica</i></u>	<u>CFU/mL</u>	<u>Percent Reduction</u>
Control	270 000	
Penta-900P 5 minutes	< 10	100
Penta-900P 15 minutes	< 10	100
Penta-900P 30 minutes	< 10	100

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Sample Identification: *Staphylococcus aureus* (MRSA); TSA plate

<u><i>Staphylococcus aureus</i> (MRSA)</u>	<u>CFU/mL</u>	<u>Percent Reduction</u>
Control	51 000 000	
Penta-900P 5 minutes	< 10	100
Penta-900P 15 minutes	< 10	100
Penta-900P 30 minutes	< 10	100

Summary of Findings:

- *B. cereus* treated with Penta-900P were able to grow on at low levels relative to the control on Tryptic Soy Agar (TSA) at 5, 15, and 30 minutes of exposure.
- *S. enterica* treated with Penta-900P were unable to grow on SS agar at 5, 15 and 30 minutes of exposure.
- *S. aureus* treated with Penta-900P were unable to grow on Tryptic Soy Agar (TSA) 5, 15 and 30 minutes of exposure.
- *B. cereus* and *S. aureus* not treated (control) with Penta-900P exhibited extensive growth on Tryptic Soy Agar (TSA).
- *S. enterica* not treated (control) with Penta-900P exhibited extensive growth on SS agar.
- Sterility Test: No growth was detected on the uninoculated sterile deionized water. No growth was detected on the uninoculated Penta-900P.

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