

# 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 #1

Colonies of Escherichia coli and Bacillus cereus were incubated for 48 hours at 25.C after treatment with Mold Gold (Penta-900) for 1 hour and 3 hours. There was a 100% reduction in colony count for the 1 hour treatment in the case of Escherichia coli, and for the 3 hour treatment in the case of Bacillus cereus

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

**Analytical Laboratory Report**

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Bulk Sample	Antifungal Product Testing	<b>18952-R01</b> *
Bulk Sample	Antifungal Product Testing	<b>18952-R02</b> *
Bulk Sample	Antifungal Product Testing	<b>18952-R03</b> *
Bulk Sample	Antifungal Product Testing	<b>18952-R04</b> *
Bulk Sample	Antibacterial Product Testing	<b>18952-R05</b>

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**PARTIAL REPORT**

Project/PO: (Antifungal/Antibacterial Product Testing)

Control ID # 18952

Received: 10-07-2008

**December 22, 2008**

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:

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\* These reports not included under this cover.

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**Analytical Laboratory Report**  
Bacterial Susceptibility Testing  
Bulk sample

Account Name:	<b>Penta-900, Inc</b>	Control ID#:	18952
Project/P.O.:	<b>Product Testing, Penta-900</b>	Date Received:	10-07-2008
Submitter:	<b>Brent Jones</b>	Date Reported:	12-22-2008

**Purpose:**

To test the efficacy of an antibacterial product (Penta-900) to inhibit the growth of bacteria. The organisms selected for this trial were *Bacillus cereus* and *Escherichia coli* that were grown up from stock cultures and 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 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 4.90 mL sterile deionized water for each organism.
  - 1.3. Prepare 15 mL sterile centrifuge tube with 4.90 mL Penta-900 for each organism.
  - 1.4. Add 0.10 mL from one of the master suspensions to the previously prepared sterile deionized water (control) and a Penta-900 (challenge) centrifuge tubes. This will bring the total volume to 5.00 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 Tryptic Soy Agar (TSA) plates to appropriate levels at 1 hour and 3 hours after preparing the primary suspensions.
  - 2.2. Plate out 1.00 mL sterile deionized water and 1.00 mL Penta-900 into separate Tryptic Soy Agar (TSA) plates. This is a control to ensure the sterility of the sterile deionized water as well as the Penta-900 being used in the trials.
  - 2.3. Incubate 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-900 (challenge) versus the sterile deionized water (control).

Report#: 18952-R05      Analysis Date: 12-19-2008  
Laboratory Results authorized by Sean P. Abbott, Ph.D., Analytical Director

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**Results:**

**Sample Identification:** *Bacillus cereus*; TSA plate

<u><i>Bacillus cereus</i></u>	<u>CFU/mL</u>	<u>Percent Reduction</u>
Control	860 000	
Penta-900 1 hour	4 200	99.5
Penta-900 3 hours	< 10	100

**Sample Identification:** *Escherichia coli*; TSA plate

<u><i>Escherichia coli</i></u>	<u>CFU/mL</u>	<u>Percent Reduction</u>
Control	101 000 000	
Penta-900 1 hour	< 10	100
Penta-900 3 hours	< 10	100

**Summary of Findings:**

- *B. cereus* treated with Penta-900 were able to grow on Tryptic Soy Agar (TSA) at 1 hour of exposure. *B. cereus* treated with Penta-900 were unable to grow on Tryptic Soy Agar (TSA) at 3 hours of exposure.
- *E. coli* treated with Penta-900 were unable to grow on Tryptic Soy Agar (TSA) at both 1 and 3 hours of exposure.
- Bacteria not treated (control) with Penta-900 exhibited extensive bacterial growth on Tryptic Soy Agar (TSA) at 1 and 3 hours.
- Sterility Test: No growth was detected on the untreated sterile deionized water. No growth was detected on the untreated Penta-900.

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