

PRECISION TESTING LABORATORIES, INC.

313 Hill Avenue, Nashville TN 37210
Phone 615-254-3401 Fax 615-254-3488
www.precisiontesting.com



Laboratory Report No. **85479**
19-Nov-09

Page 1 of 3

Mr. Kyle Martin
Bob Barker Company, Inc.
134 N. Main St.
P.O. Box # 429
Fuquay Varina, NC 27526

Cc: Ms. Carla Parke

PO#: n/a

Item: Four (4) samples

Identification: Item Number: TAKS
Description: Treated Shirts and Pants
Color: Khaki

- 1.) Untreated Control Khaki Shirt
- 2.) Untreated Control Khaki Pant
- 3.) Treated Khaki Shirt
- 4.) Treated Khaki Pant

Purpose: Determining the Antimicrobial Activity of Immobilized Antimicrobial Agents under Dynamic Contact Conditions: ASTM E 2149

Test Method Unit of Measurement	Contact Time		Percent Reduction
	Zero	24 Hours	
<u>Determining the Antimicrobial Activity of Immobilized Antimicrobial Agents Under Dynamic Contact Conditions</u>			
<u>ASTM E 2149</u>			
CFU/ml			
<u>Untreated Control</u>			
As Received (Pants) Staphylococcus aureus	1.8 x 10 ⁵	0.00E+00	NR
As Received (Shirt) Staphylococcus aureus	1.8 x 10 ⁵	0.00E+00	NR
10x launderings (Pants) Staphylococcus aureus	1.9 x 10 ⁵	0.00E+00	NR
10x launderings (Shirt) Staphylococcus aureus	1.9 x 10 ⁵	2.1 x 10 ⁴	90.07

Test Method Unit of Measurement	Contact Time		Percent Reduction
	Zero	24 Hours	
<u>Determining the Antimicrobial Activity of Immobilized Antimicrobial Agents Under Dynamic Contact Conditions ASTM E 2149 CFU/ml</u>			
<u>Treated Samples</u>			
As Received (Pants) Staphylococcus aureus	1.8 x 10 ⁵	1.9 x 10 ⁵	19.57
As Received (Shirt) Staphylococcus aureus	1.8 x 10 ⁵	1.1 x 10 ⁵	40.82
10x launderings (Pants) Staphylococcus aureus	1.9 x 10 ⁵	1.0 x 10 ³	99.47
10x launderings (Shirt) Staphylococcus aureus	1.9 x 10 ⁵	1.5 x 10 ³	99.84
20x launderings (Pants) Staphylococcus aureus	1.4 x 10 ⁵	1.4 x 10 ³	99.40
20x launderings (Shirt) Staphylococcus aureus	1.4 x 10 ⁵	1.4 x 10 ³	99.42
30x launderings (Pants) Staphylococcus aureus	1.4 x 10 ⁵	3.5 x 10 ²	99.81
30x launderings (Shirt) Staphylococcus aureus	1.4 x 10 ⁵	1.5 x 10 ²	99.90
40x launderings (Pants) Staphylococcus aureus	1.8 x 10 ⁵	2.8 x 10 ³	98.42
40x launderings (Shirt) Staphylococcus aureus	1.8 x 10 ⁵	1.7 x 10 ³	99.17
50x launderings (Pants) - re-test Staphylococcus aureus	2.4 x 10 ⁵	4.0 x 10 ²	74.58
50x launderings (Shirt) - re-test Staphylococcus aureus	2.4 x 10 ⁵	4.5 x 10 ²	99.81
60x launderings (Pants) Staphylococcus aureus	2.4 x 10 ⁵	1.2 x 10 ⁴	98.11
60x launderings (Shirt) Staphylococcus aureus	2.4 x 10 ⁵	1.5 x 10 ³	99.39
70x launderings (Pants) Staphylococcus aureus	2.4 x 10 ⁵	2.5 x 10 ³	98.21
70x launderings (Shirt) Staphylococcus aureus	2.4 x 10 ⁵	5.0 x 10 ²	99.64
80x launderings (Pants) retest Staphylococcus aureus	1.7 x 10 ⁵	3.7 x 10 ³	98.15
80x launderings (Shirt) Staphylococcus aureus	3.2 x 10 ⁵	2.5 x 10 ²	99.84
90x launderings (Pants) Staphylococcus aureus	3.2 x 10 ⁵	1.5 x 10 ³	99.75
90x launderings (Shirt) Staphylococcus aureus	3.2 x 10 ⁵	2.5 x 10 ³	98.85

Test Method Unit of Measurement	Contact Time		Percent Reduction
	Zero	24 Hours	
<u>Determining the Antimicrobial Activity of Immobilized Antimicrobial Agents Under Dynamic Contact Conditions ASTM E 2149</u>			
CFU/ml			
<u>Treated Samples</u>			
100x launderings (Pants) Staphylococcus aureus	1.7×10^5	1.0×10^3	99.44
100x launderings (Shirt) Staphylococcus aureus	1.7×10^5	1.2×10^2	≥ 99.99

Notes:

NR = No Reduction

Additional Test Information:

Sample Size: 1.0 grams
 Culture Medium: Brain Heart Infusion Broth
 Inoculum Carrier: .85% Sterile Saline Solution
 Growth Medium: Nutrient Agar
 Neutralizer: D/E Broth

Bacteria Used:

Staphylococcus aureus ATCC #6538

Samples laundered to AATCC 135 Table I (1,IV,A,i)

I certify that the above tests under my supervision were performed in accordance with the specification test requirements and that the reported results are true, valid and applicable to the samples tested. I further certify that these samples were the only samples tested from the lot of end items identified above.

Signed: Suzanne Piispanen
 Suzanne Piispanen, VP Operations

Signed: Don G. Roney
 Don G. Roney, Laboratory Manager

This report is limited to and related only to the particular instrument, material or other subject to which it refers. These test results can not be compared to results obtained using different methods or under different conditions. No representation is made that similar articles will be of like quality. Neither Precision Testing Laboratories, Inc (hereinafter "Precision Testing") nor their officers, directors, managers or employees, shall be responsible for any loss or damage resulting directly or indirectly from any failure, error or omission in testing, or in the reporting of test results. Precision Testing has no controls, and assumes no responsibility for the tested product's functionality or use. Precision Testing's liability shall not exceed the fees paid for the testing reflected on this report. Precision Testing observes and maintains client confidentiality, and limits reproduction of this report, except in full, without prior approval of Precision Testing. CL