



BIOPROTECT Antimicrobial Testing Data 2019

DATE	NAME	LABORATORY	TEST METHOD	REPORT #	PRODUCT TESTED	ORGANISM TESTED	RESULTS
11/8/2018	BP Testing on CS Medical Curtains	Sporometrics Inc 219 Dufferin St #20c Toronto, ON M6K 1Y9 Canada Ph: 416-516-1660	ASTM E2149	31212	-Architex Rx8001 (100% Trevira) + BIOPROTECT 500 -Maharam 511459 004 Breeze (100% Polyester) + BIOPROTECT 500 -CS Isolation Curtain, Royal Blue (100% Polypropylene) + BIOPROTECT 500	<i>Staphylococcus aureus</i> <i>Enterococcus</i> <i>Pseudomonas aeruginosa</i>	Treatment of the three fabrics with BioProtect 500 was effective medically relevant pathogenic microorganisms when compared activity was consistent 1, 3 and 6 weeks after application.
9/13/2018	BP vs. S.Aureus on Umf Microfiber cloth	Sanders Laboratories 1050 Endeavor Court Nokomis, FL 34275 Ph: 941-488-8103	ASTM E2149 - 2013	1809363	L420 Exhaust treated (4%) BioProtect 500 Exhaust treated (1%) Washed 24 hours	<i>Staphylococcus Aureus</i> (ATCC #6538)	The BioProtect 500 Exhaust treated (1%) microfiber cloth washed 24 hours had a Kill rate of 99.99% which is "Excellent" Antimicrobial Activity of 4.00 in the 4 hour shaker test against <i>Staphylococcus Aureus</i> . The L420 Exhaust treated (4%) microfiber cloth had a Kill rate of 99.99% in the 4 hour shaker test against <i>Staphylococcus aureus</i> .
9/13/2018	BP vs. E.Coli on Umf Microfiber Cloth	Sanders Laboratories 1050 Endeavor Court Nokomis, FL 34275 Ph: 941-488-8103	ASTM E2149 - 2013	1809364	L420 Exhaust treated (4%) BioProtect 500 Exhaust treated (1%) Washed 24 hours	<i>Escherichia Coli</i> (ATCC #25922)	The BioProtect 500 Exhaust treated (1%) microfiber cloth washed 24 hours had a Kill rate of 99.89% which is "Good" Antimicrobial Activity of 2.95 in the 4 hour shaker test against <i>Escherichia coli</i> .
8/24/2018	BP vs. S.Aureus on Paris Linens Bed sheets, towels & microfiber sheet	Sanders Laboratories 1050 Endeavor Court Nokomis, FL 34275 Ph: 941-488-8103	ASTM E2149-2001	1808955	Bioprotect 500 (5%) & L-420 Laundry Treatment	<i>Staphylococcus Aureus</i> (ATCC #6538)	Three out of three treated materials registered a 4 log reduction or higher post 24 hours against Staph on BP and L420 treated textiles.
8/24/2018	BP vs. E.Coli on Paris Linens Bed sheets, towels & microfiber sheet	Sanders Laboratories 1050 Endeavor Court Nokomis, FL 34275 Ph: 941-488-8103	ASTM E2149-2001	1808809	Bioprotect 500 (5%) & L-420 Laundry Treatment	<i>E.Coli</i> (ATCC #25922)	Four out of five treated materials registered a 3 log reduction post 24 hours against E.Coli on BP and L420 treated textiles.
4/30/2018	Antifungal Testing on BP treated Metal	E.Labs 5150 Lad Land Dr. Fredericksburg, VA 22407 Phone: (540) 834-0372	MIL-STD-8106 Method 508.6	6628	Bioprotect 500 (5%)	Fungus type: a. <i>Aspergillus flavus</i> b. <i>Aspergillus versicolor</i> c. <i>Penicillium funiculosum</i> d. <i>Chaetomium globosum</i> e. <i>Aspergillus niger</i>	The BP treated metal showed no fungal or mold growth during the 30 day test
3/19/2018	BP vs. Salmonella on Tile Flooring	Sanders Laboratories 1050 Endeavor Court Nokomis, FL 34275 Ph: 941-488-8103	ASTM E2149-2001	1803-464	BioProtect RTU (.05%)	<i>Salmonella</i> (ATCC #14028)	The unwashed, BP treated floor tiles showed >99.999% (>5 log) reduction in <i>Salmonella</i> after 24 hours.
1/20/2018	BP vs. C.Diff on Hospital Separation Curtains	Sanders Laboratories 1050 Endeavor Court Nokomis, FL 34275 Ph: 941-488-8103	ASTM E2149-2001	1801639	BioProtect 500	<i>Vegetative Clostridium Difficile</i> (ATCC #BAA-1870)	The unwashed, BP treated separation curtains produced >99.98% (>3 log) reduction in <i>C.Diff</i> after 24 hours.
1/8/2018	BP vs. Staph on Hospital Separation Curtains	Sanders Laboratories 1050 Endeavor Court Nokomis, FL 34275 Ph: 941-488-8103	ASTM E2149-2001	1801095	BioProtect 500	<i>Staphylococcus Aureus</i> MRSA strain (ATCC #6538)	The unwashed BP treated separation curtains showed >99.999% (5 log) reduction in <i>S.Aureus</i> after 24 hours.
10/23/2017	BP vs. Staph on Turf Material	Sanders Laboratories 1050 Endeavor Court Nokomis, FL 34275 Ph: 941-488-8103	ASTM E2149	11101-288	BioProtect 500	<i>Staphylococcus Aureus</i> (ATCC #700699)	Both the washed and unwashed BP treated turf samples showed >99.9% reduction (>3 log kill) against <i>S.Aureus</i> after 4 and 24 hours. The BP treated plastic cosmetic compact samples showed the following results after 90 days: 99.97% (3 log) reduction in <i>E.Coli</i> 99.98% (3 log) reduction in <i>S.Aureus</i> 99.99% (4 log) reduction in <i>Salmonella</i> 99.96% (4 log) reduction in <i>C.Perfringens</i> 99.99% (4 log) reduction in <i>Aspergillus Niger</i> 99.99% (4 log) reduction in <i>Candida Albicans</i> 99.99% (4 log) reduction in <i>S.Cerevisiae</i>
3/17/2017	BP Testing on Plastic Cosmetic Cases	Spectro Analytical Labs E-41, Okhla Ind. Area. Ph-II New Delhi, India 110020 Ph: 91-11-40522000 care@spectro.in	ASTM E2149-10	16112407-1	BioProtect 500	<i>E.Coli</i> (MTCC 41) <i>Staphylococcus Aureus</i> (MTCC 96) <i>Salmonella</i> (MTCC 1251) <i>Clostridium Perfringens</i> (MTCC 450) <i>Aspergillus Niger</i> (MTCC-282) <i>Candida Albicans</i> (MTCC-183) <i>Saccharomyces Cerevisiae</i> (MTCC-2569)	
2/27/2016	BP vs. Cat Urine on Towels	Sanders Laboratories 1050 Endeavor Court Nokomis, FL 34275 Ph: 941-488-8103	ASTM E2149-2001	1602-867	BioProtect 500	Bacteria derived from Cat Urine	The unwashed, BP treated towels showed a 99.99% log reduction (4 log reduction) in bacteria after 4 and 24 hours.
9/5/2015	BP vs. Staph on Rigid Plastics & Metals	Sanders Laboratories 1050 Endeavor Court Nokomis, FL 34275 Ph: 941-488-8103	ASTM E2149-2001	1101-3048	BioProtect 500	<i>Staphylococcus Aureus</i> MRSA (ATCC #33591)	The BP cured Polyethylene, Polyvinyl Chloride and Metal samples each showed >99.0-99.9% reduction (>2-3 log reduction) in <i>S.Aureus</i> after 24 hours.
9/2/2015	BP Cytotoxic Testing	Nelson Laboratories 6280 S. Redwood Rd. Salt Lake City, UT 84123 Ph: 801-290-7500	STP0032 Rev 09 MEM Elution Test	842047	BioProtect 500	Mammal cells	BioProtect passed the cytotoxicity test proving it causes no harm to mammal cells.
8/13/2015	BP vs. Staph on Lab Coats & Scrubs	Sanders Laboratories 1050 Endeavor Court Nokomis, FL 34275 Ph: 941-488-8103	ASTM E2149-2001	1101-3028	BioProtect 500	<i>Staphylococcus Aureus</i> MRSA (ATCC #33591)	The unwashed, BP treated lab coat and scrubs showed excellent resistance to <i>S.Aureus</i> with a >99.999% reduction in bacteria (>5 log reduction) after 24 hours.



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12/19/2014	BP Testing on Plastic Hospital Bed Rails	GAP EnviroMicrobial Service 1020 Hargreave Rd. London, Ontario, CA N6E1P9 Ph: 519-681-0571 info@gaplab.com	ISO 22196	A11149	BioProtect 500	<i>Staphylococcus Aureus</i> MRSA (ATCC #33591) <i>E.Coli</i> (ATCC #25922) <i>Enterococcus faecalis</i> (ATCC #700802)	The BP treated plastic bed rails showed a >99.99933% reduction in <i>S.Aureus</i> (>5 log reduction), >99.99954% reduction in <i>E.Coli</i> (>5 log reduction) and >99.99519% reduction in <i>E.Faecalis</i> (>4 log reduction).
5/11/2013	BP vs. Staph on Plastic Cases	Sanders Laboratories 1050 Endeavor Court Nokomis, FL 34275 Ph: 941-488-8103	ASTM E2149-2001	1101-1535	BioProtect 500	<i>Staphylococcus Aureus</i> MRSA Strain (ATCC #700699)	The BP treated plastic cases showed >99.9% reduction (>3 log reduction) in Staph/MRSA strain of bacteria on the plastic cases after 4 and 24 hours.
11/15/2012	BP vs. C.Diff Spores	Sanders Laboratories 1050 Endeavor Court Nokomis, FL 34275 Ph: 941-488-8103	N/A	1101-938 and 974	BioProtect RTU & BioProtect 500	<i>Clostridium Difficile</i> (ATCC #9689)	BP500 showed a 99.9% reduction (3 log reduction) in C.Diff spores after 1 minute and 3 minutes. Thus, BP is effective at killing C.Diff spores.
8/18/2012	BP vs. Aspergillus niger (Mold) on filters	Sanders Laboratories 1050 Endeavor Court Nokomis, FL 34275 Ph: 941-488-8103	ASTM E2149 - 2001	1101-868	Bioprotect 500	<i>Aspergillus niger</i> ATCC 9642	The BP treated sample showed excellent reduction in viable mold spore count at 4 hours and at 24 hours.
1/30/2012	BP vs. E.Coli on Plastic Films	PolyFusion Laboratory 2201 N. Wayne St. Angola, Indiana 46703 Ph: 260-624-7659	ASTM E2149-10	13012	BioProtect RTU	<i>E.Coli</i> (ATCC #25922)	The BP treated plastic films showed a 99.999% reduction (>5 log reduction) in <i>E.Coli</i> after 1 hour.
1/26/2012	BP vs. Staph on White Fabric	Sanders Laboratories 1050 Endeavor Court Nokomis, FL 34275 Ph: 941-488-8103	ASTM E2149-2001	1101-563	BioProtect 500	<i>Staphylococcus Aureus</i> (ATCC #6538)	The BP treated white fabric samples showed excellent antimicrobial activity with >99.9% reduction (>3 log kill) in Staph after 4 and 24 hours.
7/22/2011	BP vs. Staph on Concrete Flooring	Sanders Laboratories 1050 Endeavor Court Nokomis, FL 34275 Ph: 941-488-8103	ASTM E2149-2001	1101-291	BioProtect 500	<i>Staphylococcus Aureus</i> (ATCC #700699)	The BP treated concrete samples showed excellent antimicrobial activity with >99.9% reduction (>3 log kill) in Staph after 4 and 24 hours.
5/2011	BP Testing on Ornamental Flowers	Glades Crop Care, Inc 949 Turner Quay Jupiter, FL 33458 Ph: 561-746-3740	Phytotoxicity Screening	11-02	BioProtect 500	Crop tolerance	It was proven that BP does not cause a phototoxic response or crop injury when applied to foliage or open blooms.
11/19/2009	Bob Barker 100 Wash Test	Precision Testing Lab 313 Hill Ave. Nashville, TN 37210 Ph: 615-254-3401	ASTM E2149	85479	BioProtect 500	<i>Staphylococcus Aureus</i> (ATCC #6538)	The BP treated shirts and pants showed a 99.99% reduction (4 log kill) in Staph after 100 washings.