



BIOLOGICAL FILM REDUCTION TEST **June 28-29, 2010**

Measurement Method: Hygiena SystemSURE Plus ATP Illuminometer using Hygiena UltraSnap test swabs. Measures ATP (adenosine triphosphate) present in all living organic matter as RLUs (Relative Light Units) with bioluminescence technology.

Biological Film Coating: 24 hour dried-on 50% nonfat milk / 50% distilled water.

Test Surface: 4"x4" white gloss ceramic tile.

Number of Replicates: 30 total. 15 sterile alcohol washed tiles then coated with sprayed on OxiTitan Antimicrobial Coating (coating cured 5 days). 15 sterile alcohol washed uncoated tiles.

Light Exposure: 24 hours from single 65 watt incandescent bulb, 6 feet from table surface. No natural (UV) light. No fluorescent lighting.

Clean Surface RLU readings (5 random tiles) prior to *o Time* inoculation with biological film: 10, 12, 7, 15, 4 RLUs.

<u>OxiTitan Coated</u>			<u>RLUs</u>	<u>Uncoated</u>		
154	34	189		335	95	214
236	301	199		550	507	410
21	342	113	p < 0.005	824	752	627
107	150	119		210	1,012	196
69	118	104		262	189	126
Total 2,256 RLUs / 15 tiles				Total 6,306 RLUs / 15 tiles		
Average RLUs : 150.4				Average RLUs : 420.5		

**Reduction of Organic Film on
OxiTitan Coated Tiles vs. Uncoated:**

74%