# Antimicrobial Test Laboratories Fast, Reliable Antimicrobial Efficacy Testing

#### Microbiology Study Report NG3347

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Client Information						
Company Name:	PurWorld / DrivePur	Sponsor(s):	Kyle Bettilyon			
Sponsor's Phone:	(832) 659-9876	E-mail(s):				
sponsors rhone:	(832) 837-7878	L-man(s).	kyle@purworld.com			
Test Information						
Test(s) Performed:	Custom test based on JIS Z 2801 in Sir	nglet (Study ID NG3347)				
SOP Followed:	Custom	Performed by:	N. Garcia			
Sample Information						
Test Substance ID(s):	8996 - Shök spray	Sample(s) Received:	25-Apr-2012			
	8997 - Prëvnt Spray no polymer					
Parameters						
Microorganism(s):	E.coli ATCC 8739	Test Sample Size:	2" x 2" Plexi Glass Carrier			
Subculture Number:	1	# of Test Coupons:	2			
Growth Medium:	Trypticase Soy Broth	Target Inoculum:	2-4 x 10 ^ 3 CFU/coupon (0.400 mL)			
Culture Age:	18-24 hours	Culture Supplement:	0.1% Triton X-100			
Neutralizer:	D/E Broth (10 mL)	Exposure Temp.	Ambient ~25°C			
Plate Incubation Time:	18-24 hours	Exposure Time:	7 hours			
Plating medium:	Trypticase Soy Agar (Difco)	Light Expoosure:	UVA light, 4 inches from surface			
Film Used:	40mm x 40mm Sterile Plastic	Plate Inc. Temp.:	36.0 ± 1°C			
Controls						
Media Sterility:	Passed	Growth Control:	Passed			
Test Results						
Test(s) Valid?:	N/A	"Passed?"	N/A			
Notes: Carriers v	were inoculated with 0.400 mL of test cult	ure and dried at 36°C for 3	30 minutes. Prior to test, Shök and			
	ken and primed by spraying >20 pumps					
with 3 pumps from a dist	ance of 6 inches. Carriers were dried at r	oom temperature in betwe	en treatments. Control carrier was			
treated simlarly with steri	le water. After final treatments, 0.400 mL	of growth media (undilute	Trypic Soy Broth) was added and a			
plastic cover film was app	olied to facilitate media spreading. Carrie	ers were placed under UV l	ight and carefully administered 0.100			
mL of growth media ever	y hour. During the contact period, a prec	ipitate formed on the surfa	ce of the treated test carrier. After the			
contact time, viable bacteria were harvested using 10 mL of D/E broth and enumerated using standard plating techniques.						
Tests Completed:	26-Apr-2012	Report Sent:	27-Apr-2012			

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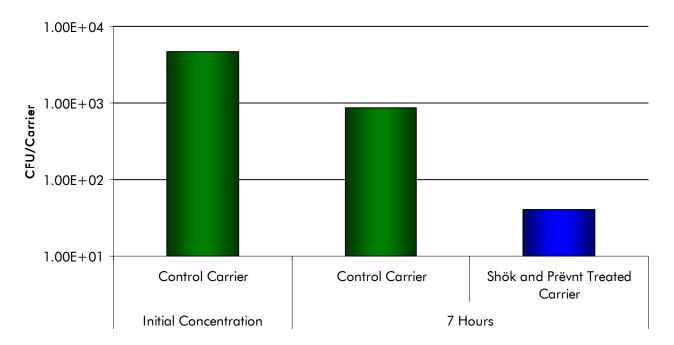
#### Results

Microorganism	Contact Time	Sample	CFU/Carrier	R-Value Relative to Control at 7 hours	Percent Reduction Relative to Control at 7 hours
<i>E. coli</i> ATCC 8739	Initial Concentration	Control Carrier	4.75E+03	N/A	N/A
	7 Hours	Control Carrier	8.63E+02	IN/A	
		Shök and Prëvnt Treated Carrier	4.00E+01	1.33	95.36%

Enumeration of colonies from Control Carrier Plates displayed variability between dilutions,

therefore CFU/carrier determined by utilizing CFU from multiple dilutions.

#### E. coli ATCC 8739



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#### Calculations

Method of Calculation of Antimicrobial Activity:

R (Average Log Reduction) = Log (B/C), where:

B = Average number of viable cells on the control samples after 24 hours.

C = Average number of viable cells on the test samples after 24 hours.

Method of Calculation of Percent Reduction:

Percent Reduction =  $(B-C/B) \times 100$ , where:

B = Average number of viable cells on the controls samples after 24 hours.

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C = Average number of viable cells on the test samples after 24 hours.