

Microbiology Study Report NG4702

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Client Information								
Company Name:	Chemco Technologies	Sponsor(s):	Lloyd Starks					
Sponsor's Phone:	(706) 529-9696	E-mail(s):	ls@chemcotech.com					
Test Information								
Test(s) Performed:	Modified JIS Z 2801 lower contact time							
SOP Followed:	Testing Facility Operation 018.0	Performed by:	D. Sowersby					
Sample Information	1							
-	:Aged 1:21 Proprietary Solution – 4	months and 8 days in am	bient laboratory conditions					
Sample(s) Received:		,	,					
Parameters								
Microorganism(s):	S. aureus ATCC 33592 (MRSA)	# of Replicates:	2 per test					
Subculture Number	: 1	Test Carriers:	4.8 cm 100% cotton swatches					
Growth Medium:	Trypticase Soy Broth (TSB)		1" x 3" glass slides					
Culture Age:	~ 20 hrs.	Target Inoculum:	1.0 x 10 ⁵ CFU/Carrier					
Neutralizer:	D/E Broth (10ml)	Inoculation Volume:	50 μl					
Incubation Time:	~ 24 hrs. @ 36.0 ± 1°C	Plating medium:	Trypticase Soy Agar (TSA)					
Exposure Time:	10 min.	Exposure Temp.	Ambient ~25°C					
Controls								
Neutralized:	N/A (previously validated)	Growth Control:	N/A					
Media Sterility:	N/A							
Test Results								
Test(s) Valid?:	Yes							
			n 21 parts RO water. This solution was poured into					
		·	uilibrate for ~ 15 minutes. Steam was applied to					
	* *	<u>- </u>	es from each surface to create the test carriers.					
	-	· · · · · · · · · · · · · · · · · · ·	is. An aliquot of an overnight culture was added with $50 \mu l$ of the inoculum for a target of					
		•	d for 10 minutes at room temperature. Upon					
			roth and enumerated using conventional dilution					
	CFU reductions were calculated usin		•					
Tests Completed:	21 NOV 2013	Report Sent:	26 NOV 2013					

Phone: (512) 310-TEST info@AntimicrobialTestLabs.com http://www.AntimicrobialTestLabs.com

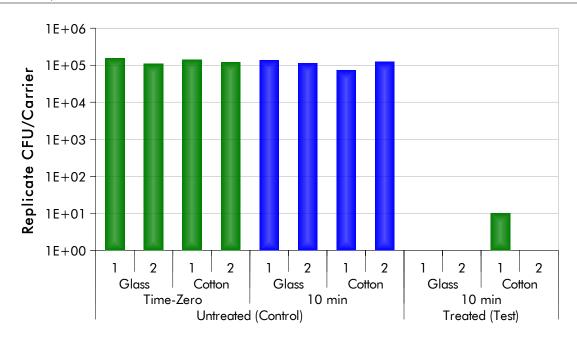


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Results

Note: S.aureus ATCC 33592 (MRSA) Samples below aged for 4 months

Sample	Contact Time	Surface Type	Replicate	CFU/Carrier	Average CFU/Carrier	Log ₁₀ Reduction	Percent Reduction			
Untreated (Control)	Time-Zero -	Glass	1	1.55E+05	1.33E+05	N/A				
			2	1.10E+05						
		Cotton	1	1.40E+05	1.30E+05					
			2	1.20E+05						
	10 min -	Glass	1	1.35E+05	1.25E+05					
			2	1.15E+05						
		Cotton	1	7.30E+04	9.90E+04					
			2	1.25E+05						
Treated (Test)	10 min -	Glass	1	<5.00E+00	<5.00E+00	>4.40	>99.996%			
			2	<5.00E+00						
		Cotton	1	1.00E+01	<7.50E+00	>4.12	>99.992%			
			2	<5.00E+00						
Note: Blue text represents data used in final CFU reduction calculations.										



Note: Samples below the limit of detection for the assay (5 CFU) are represented as 0 in the chart above.



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Additional Information

Calculations

Method of Calculation of Antimicrobial Activity:

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

B = Initial number of viable cells on the control samples.

C = Number of viable cells on treated samples after contact time.

Method of Calculation of Percent Reduction:

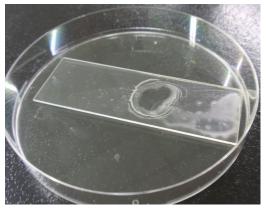
Percent Reduction = $(B-C/B) \times 100$, where:

B = Initial number of viable cells on the control samples.

C = Number of viable cells on treated samples after contact time.

Study Photos





example of aged treated cotton and glass carriers used in the study