

TABLE I

VIRUCIDAL TIME-KILL SUSPENSION TEST # 090447-402

Test Product: #1 MICRO·DINE™ Hand Sanitizing Solution - 5.0% Povidone Iodine, 0.5% Allantoin
Virus / Strain: Swine Influenza A H1N1/A/Swine/Iowa/15/30 ATCC # VR-333
Host Cell Line: MDCK Host Cell Line ATCC # CCL-34 Volume Plated per Well (mL): 1.0 mL
Neutralizer : BBP++

Dilution (- Log ₁₀)	Virus Control	Test exposure time			Cytotoxicity Control	Neutralization Control	Cell Control (negative control)
		30 seconds	1 minute	2 minutes			
							0000
-3	++++	0000	0000	0000	0000	NT	
-4	++++	0000	0000	0000	0000	NT	
-5	++++	0000	0000	0000	NT	++++	
-6	++++	0000	0000	0000	NT	++++	
-7	+000	0000	0000	0000	NT	+++0	
TCID ₅₀	6.75log ₁₀	2.50 log ₁₀	2.50 log ₁₀	2.50 log ₁₀	NA	7.25 log ₁₀	
Log₁₀ Reduction	NA	4.25 log₁₀	4.25 log₁₀	4.25 log₁₀			
Percent Reduction	NA	>99.99%	>99.99%	>99.99%		NA	

+ CPE (cytopathic/cytotoxic effect) present
0 CPE (cytopathic/cytotoxic effect) not detected
NT Not tested
NA Not applicable

Virucidal Time-Kill Suspension Test performed for strain A/Swine/Iowa/15/30 of Swine Influenza A H1N1 (VR-333) showed that Test Product #1 MICRO·DINE™ Hand Sanitizing Solution (5.0% Povidone Iodine, 0.5% Allantoin) reduced infectivity of the virus 4.25log₁₀ (>99.99% reduction) after 30 second, 1 minute and 2 minute exposures.

TABLE II**Test Product: #2 HIBICLENS® Antiseptic/Antimicrobial Skin Cleanser**Virus / Strain: Swine Influenza A H1N1/A/Swine/Iowa/15/30 ATCC # VR-333Host Cell Line: MDCK Host Cell Line ATCC # CCL-34 Volume Plated per Well (mL): 1.0 mLNeutralizer : BBP++

Dilution (- Log ₁₀)	Virus Control	Test exposure time			Cytotoxicity Control	Neutralization Control	Cell Control (negative control)
		30 seconds	1 minute	2 minutes			
							0000
-3	++++	++++*	++++*	++++*	++++*	++++*	
-4	++++	0000	0000	0000	0000	++++	
-5	++++	0000	0000	0000	0000	++++	
-6	++++	0000	0000	0000	NT	++++	
-7	000+	0000	0000	0000	NT	000+	
TCID ₅₀	6.75 Log ₁₀	3.50 Log ₁₀	3.50 Log ₁₀	3.50 Log ₁₀	N/A	6.75Log ₁₀	
Log₁₀ Reduction	N/A	3.25 Log₁₀	3.25 Log₁₀	3.25 Log₁₀	N/A		
Percent Reduction	N/A	99.94%	99.94%	99.94%	N/A		

+ CPE (cytopathic/cytotoxic effect) present

0 CPE (cytopathic/cytotoxic effect) not detected

NT Not tested

N/A Not applicable

* Cytotoxicity, the dilution was not be used in calculations

Virucidal Time-Kill Suspension Test performed for strain A/Swine/Iowa/15/30 of Swine Influenza A H1N1 (VR-333) showed that Test Product HIBICLENS® Antiseptic/Antimicrobial Skin Cleanser (lot# 802762) reduced infectivity of the virus 3.25log₁₀ (99.94% reduction) after 30 seconds, 1 minute and 2 minute exposures. Due to excessive cytotoxicity of the Test Product #2 HIBICLENS® Antiseptic/antimicrobial Skin Cleanser (lot# 802762) 3.25log₁₀ reduction was demonstrable beyond the cytotoxic level.

TABLE III**VIRUCIDAL TIME-KILL SUSPENSION TEST # 090447-402**

Test Product: Comparator Dr. Bronner's Magic Soap Pure-Castile Soap
 Virus / Strain: Swine Influenza A H1N1/A/Swine/Iowa/15/30 ATCC # VR-333
 Host Cell Line: MDCK Host Cell Line ATCC # CCL-34 Volume Plated per Well (mL): 1.0 mL
 Neutralizer : BBP++

Dilution (- Log ₁₀)	Virus Control	Test exposure time			Cytotoxicity Control	Neutralization Control	Cell Control (negative control)
		30 seconds	1 minute	2 minutes			
							0000
-3	++++*	++++*	++++*	++++*	++++*	NT	
-4	++++	++++	++++	++++	0000	NT	
-5	++++	++++	+++0	++++	NT	++++	
-6	++++	+000	+000	0000	NT	++++	
-7	+000	0000	0000	0000	NT	++00	
TCID ₅₀	6.75log ₁₀	5.75 log ₁₀	5.50 log ₁₀	5.50 log ₁₀	NA	7.00 log ₁₀	
Log₁₀ Reduction	NA	1.00 log₁₀	1.25 log₁₀	1.25 log₁₀	NA		
Percent Reduction	NA	90.00%	94.38%	94.38%			

+ CPE (cytopathic/cytotoxic effect) present
 0 CPE (cytopathic/cytotoxic effect) not detected
 NT Not tested
 NA Not applicable

Virucidal Time-Kill Suspension Test performed for strain A/Swine/Iowa/30 of Swine Influenza A H1N1 (VR-333) showed that the Comparator test product Dr. Bronner's Magic Soap Pure-Castile Soap reduced infectivity of the virus 1.00log₁₀ (90.00% reduction) after 30 second exposure and 1.25 log₁₀ (94.38%) after 1 minute and 2 minute exposures.