



Lab Test Results – Synopsis

This attachment includes the results of the various lab studies AGent+ has had independently performed on various viruses and bacteria.

Note: SARS-CoV-2 is the virus that causes COVID-19 (SARS-CoV-2 is to COVID-19 as HIV is to AIDS).

Additionally, the Human coronavirus 229E (HCoV-229E) is the approved surrogate to COVID-19.

Viral

AGent+ Hard Surface Effectiveness (SARS-CoV-2)

99.9% (3 Log) Reduction – 3 Minute Dwell Time

AGent+ Hard Surface Effectiveness (Human coronavirus 229E)

99.97% (3 Log) Reduction – 3 Minute Dwell Time

99.994% (4 Log) Reduction – 10 Minute Dwell Time

AGent+ Multi-Purpose Effectiveness (Human coronavirus 229E)

99.97% (3 Log) Reduction – 5 and 10 Minute Dwell Times

Bacterial

AGent+ Hard Surface Effectiveness (S. aureus 6538)

99.999% (5 Log) Reduction – 10 Minute Dwell Time

Continues eliminating 94.2% after 3-days on surface

AGent+ Multi-Purpose Effectiveness (S. aureus 33592 – MRSA)

99.9% (3 Log) Reduction – 10 Minute Dwell Time

Continues eliminating 99.7% after 3-days on surface

Certificate of Analysis

Product: AGent+ Hard Surface

Certificate No.: N1533431 Version 4

Lot No: N/A

Issued for: Cosil Products Inc

Test / Date / Method	Specification	Results
Disinfectant Effectiveness (SARS-COV-2) 2020-07-07 ASTM-E1053	Report for; 3 minutes contact time and 10 minutes contact time	Log reduction > 3 at 3 minutes Contact (a total count reduction of 99.9% at 3 minutes contact time)

Issuance Date: 2020-07-21

Approved By:
Reem Samman
 QA Director



Requisition: 1115R9103 **Received On** 2020-05-29 **Code No:** N/A **For** Cosil Products Inc, 28 Dundurn Cr, Thornhill, na, Tel:4166788292 Fax:na.



RESULTS

Table 1: Virus Titer and Virus Plate Recovery Control Results

		Virus Titer	Virus Plate Recovery Control (10 minutes)
Cell Control		0 0 0 0	0 0 0 0
Dilution	10 ⁻¹	+ + + +	+ + + +
	10 ⁻²	+ + + +	+ + + +
	10 ⁻³	+ + + +	+ + + +
	10 ⁻⁴	+ + + +	+ + + +
	10 ⁻⁵	+ + + +	+ + + +
	10 ⁻⁶	0 0 0 +	+ 0 + 0
	10 ⁻⁷	0 0 0 0	0 0 0 0
	10 ⁻⁸	0 0 0 0	N/A
TCID₅₀ per 0.1 ml		5.75 Log ₁₀	6.00 Log ₁₀
TCID₅₀ per Carrier		Not applicable	6.30 Log ₁₀

Key: + = Virus recovered; 0 = Virus not recovered and/or no cytotoxicity observed;
T = Cytotoxicity observed; N/A = not applicable

Table 2: Test Results for AGent+ Hard Surface Cleaner & Protectant (Lot: HSL5-006)

		Test Results (3 minutes)	Test Results (10 minutes)
Cell Control		0 0 0 0	0 0 0 0
Dilution	10 ⁻¹	T T T T	T T T T
	10 ⁻²	T T T T	0 T 0 0
	10 ⁻³	0 0 0 0	0 0 0 0
	10 ⁻⁴	0 0 0 0	0 0 0 0
	10 ⁻⁵	0 0 0 0	0 0 0 0
	10 ⁻⁶	0 0 0 0	0 0 0 0
	10 ⁻⁷	0 0 0 0	0 0 0 0
	TCID₅₀ per 0.1 ml		≤2.50 Log ₁₀
TCID₅₀ per Carrier		≤2.80 Log ₁₀	≤2.05 Log ₁₀
Log₁₀ Reduction		≥3.50 Log ₁₀	≥4.25 Log ₁₀
Percent Reduction		≥99.97%	≥99.994%

Key: + = Virus recovered; 0 = Virus not recovered and/or no cytotoxicity observed;
T = Cytotoxicity observed



RESULTS

Table 1: Virus Titer and Virus Plate Recovery Control Results

		Virus Titer	Virus Plate Recovery Control (10 minutes)
Cell Control		0 0 0 0	0 0 0 0
Dilution	10 ⁻¹	+ + + +	+ + + +
	10 ⁻²	+ + + +	+ + + +
	10 ⁻³	+ + + +	+ + + +
	10 ⁻⁴	+ + + +	+ + + +
	10 ⁻⁵	+ + + +	+ + + +
	10 ⁻⁶	0 0 0 +	+ 0 + 0
	10 ⁻⁷	0 0 0 0	0 0 0 0
	10 ⁻⁸	0 0 0 0	N/A
TCID₅₀ per 0.1 ml		5.75 Log ₁₀	6.00 Log ₁₀
TCID₅₀ per Carrier		Not applicable	6.30 Log ₁₀

Key: + = Virus recovered; 0 = Virus not recovered and/or no cytotoxicity observed;
 T = Cytotoxicity observed; N/A = not applicable

Table 2: Test Results for AGent+ Multi-Purpose Cleaner & Protectant (Lot: MPLS-004)

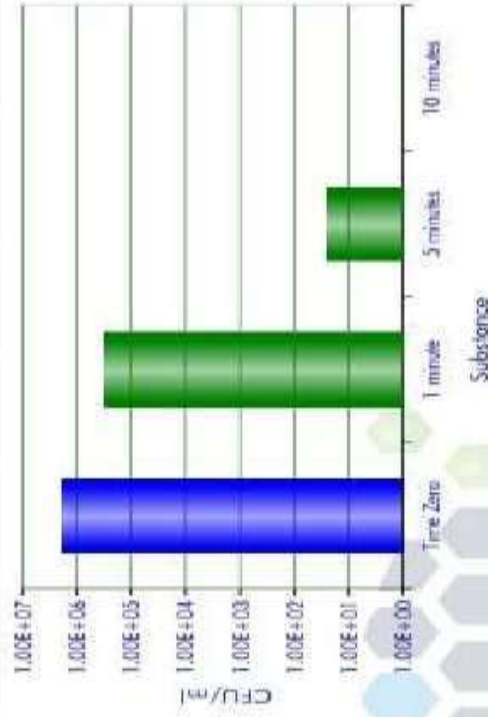
		Test Results (5 minutes)	Test Results (10 minutes)
Cell Control		0 0 0 0	0 0 0 0
Dilution	10 ⁻¹	T T T T	T T T T
	10 ⁻²	T T T T	T 0 T T
	10 ⁻³	0 0 0 0	+ 0 0 0
	10 ⁻⁴	0 0 0 0	0 0 0 0
	10 ⁻⁵	0 0 0 0	0 0 0 0
	10 ⁻⁶	0 0 0 0	0 0 0 0
	10 ⁻⁷	0 0 0 0	0 0 0 0
	TCID₅₀ per 0.1 ml		≤2.50 Log ₁₀
TCID₅₀ per Carrier		≤2.80 Log ₁₀	2.80 Log ₁₀
Log₁₀ Reduction		≥3.50 Log ₁₀	3.50 Log ₁₀
Percent Reduction		≥99.97%	99.97%

Key: + = Virus recovered; 0 = Virus not recovered and/or no cytotoxicity observed;
 T = Cytotoxicity observed

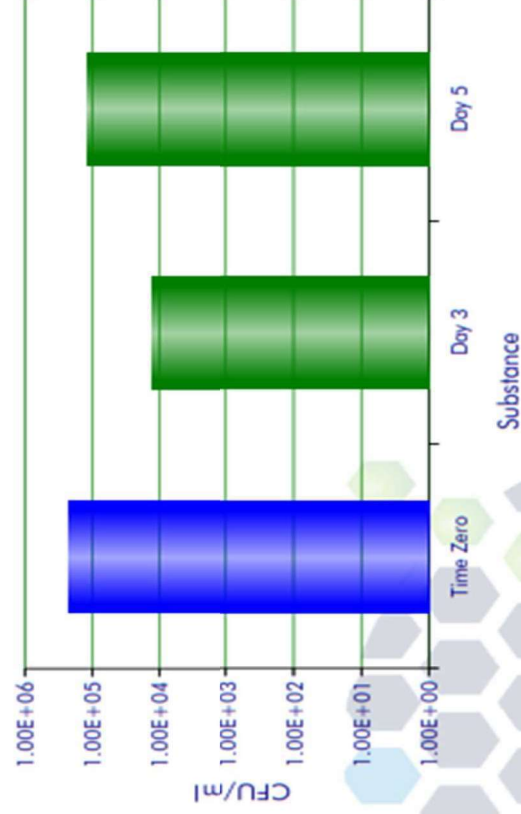
AGent+ Hard Surface Cleaner & Protectant – Bacterial Results

Results of the Study

Test Microorganism	Contact Time	Test Substance	CFU/ml	Percent Reduction Compared to Control at Time Zero	Log ₁₀ Reduction Compared to Control at Time Zero
<i>S. aureus</i> 6538	Time Zero	Control	1.80E+06	N/A	
	1 minute	AGent+	3.15E+05	82.53%	0.76
	5 minutes	AGent+	2.50E+01	99.9986%	4.86
	10 minutes	AGent+	<3.00E+00	>99.9997%	>5.56



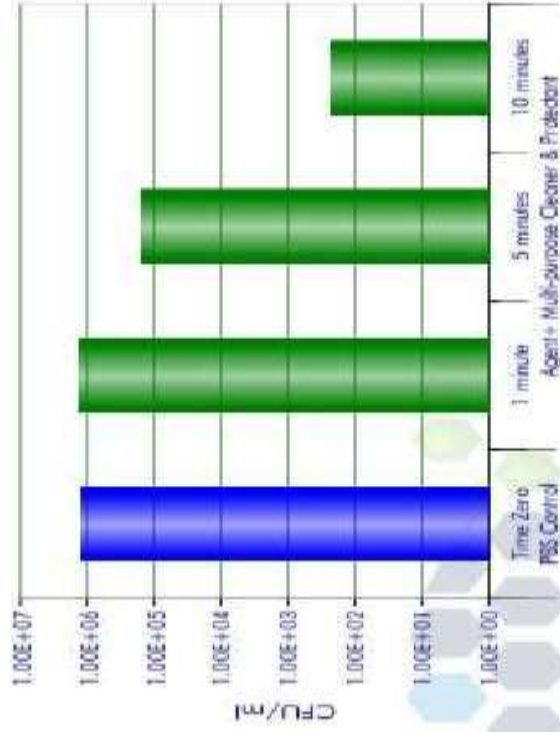
Test Microorganism	Contact Time	Test Substance	CFU/ml	Percent Reduction Compared to Control at Time Zero	Log ₁₀ Reduction Compared to Control at Time Zero
<i>S. aureus</i> 6538	Time Zero	Control	2.25E+05	N/A	
	Day 3	AGent+	1.30E+04	94.22%	1.24
	Day 5	AGent+	1.15E+05	48.89%	0.29



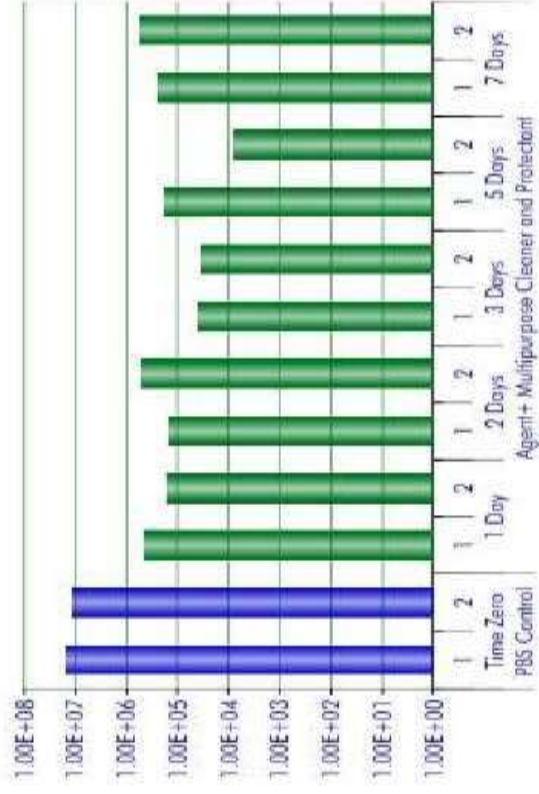
Results

Agent+ Multi-Purpose Cleaner & Protectant – Bacterial Results

Test Microorganism	Test Substance	Contact Time	CFU/ml	Percent Reduction Compared to Control at Time Zero	Log ₁₀ Reduction Compared to Control at Time Zero
<i>S. aureus</i> 33592 (MRSA)	PBS Control	Time Zero	1.17E+06	N/A	
	Agent+ Multi-purpose Cleaner & Protectant	1 minute	1.30E+06	None	None
		5 minutes	1.54E+05	86.78%	0.88
		10 minutes	2.20E+02	99.98%	3.72



Test Microorganism	Carrier Treatment	Treatment Time	Replicate	CFU/ml	Average Percent Reduction Compared to Control at Time Zero	Average Log ₁₀ Reduction Compared to Control at Time Zero
<i>S. aureus</i> 6538	PBS Control	Time Zero	1	1.49E+07	N/A	N/A
		2	1.14E+07			
	1 Day	1	4.30E+05	97.75%	1.65	
		2	1.62E+05			
	2 Days	1	1.44E+05	97.69%	1.64	
		2	4.64E+05			
	3 Days	1	3.89E+04	99.72%	2.55	
		2	3.33E+04			
	5 Days	1	1.68E+05	99.34%	2.18	
		2	7.50E+03			
	7 Days	1	2.32E+05	97.07%	1.53	
		2	5.98E+05			



Results