Unaudited Preliminary Results - Project No. 1038-101: Virucidal Efficacy Suspension Test Per EN14476:2013+A2:2019 - Severe Acute Respiratory Syndrome-related Coronavirus 2 (SARS-CoV-2) (COVID-19 Virus)

Table 1
Pre-Test Cytotoxicity Control Results

Dilution*	Zoflora Blue Bell Woods Disinfectant
1:10	Cytoxocity observed
1:30	No cytotoxicity observed
1:100	No cytotoxicity observed
1:300	No cytotoxicity observed
1:1000	No cytotoxicity observed
1:3000	No cytotoxicity observed

* Dilution refers to the fold of dilution from the PNS.

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Table 2
Titer Results - Test

Sample	Contact Time	Titer ($Log_{10}TCID_{50}$/mL)	Volume (mL)	Volume Correction[a]	Viral Load ($Log_{10}TCID_{50}$)
Virus Stock Titer Control	N/A	6.55 ± 0.16	-	-	-
Theoretical load [b]	N/A	3.77 ± 0.16	10	60	6.55 ± 0.16
Cell Viability Control	no virus was detected; cells were viable; media was sterile				
Virus Recovery Control (VRC)	0 minute	4.18 ± 0.18	10	60	6.96 ± 0.18
	5 minutes	4.05 ± 0.16	10	60	6.83 ± 0.16
Neutralizer Effectiveness Control (NEC) [c]	5 minutes	6.30 ± 0.19	N/A	N/A	6.30 ± 0.19
Zoflora Blue Bell Woods Disinfectant	5 minutes	≤ -0.43 *	10	60	≤ 2.35 *

[a] Volume correction accounts for the neutralization and quench of the sample post contact time.

[b] Based on the Virus Stock Titer (6.55 Log_{10} $TCID_{50}$/mL) minus Log_{10} (Volume x Volume Correction)

[c] A 4.5 mL aliquot of post-quenched sample was spiked with 0.5 mL of stock virus, mixed via vortex, and held in an ice-bath for 30 minutes.

N/A = Not Applicable

* No virus was detected; the theoretical titer was determined based on the Poisson Distriubution.

Note 1: The difference in Viral Load between the VST and NEC was ≤ 0.50 Log_{10} $TCID_{50}$.

Note 2: When no virus is detected in the "titration" sample, the "large volume" was used as the output load since large volume has a lower limit of detection (LOD). When virus was detected in the "titration" sample, the titration was used as the output load since titration was more accurate.

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Table 3
Cytotoxicity Control

Sample	Dilution*	Cytotoxicity Control
Zoflora Blue Bell Woods Disinfectant	10^0	No cytotoxicity observed

* The post-neutralized & quenched sample (PNS) was considered Undilute (10^0)

Conclusion: The neutralized test substance did not have significant cytotoxicity at undilute.

Table 4
Viral Interference Control

Sample	Virus Titer (Log_{10} $TCID_{50}$/mL)	Log_{10}Titer Difference
Zoflora Blue Bell Woods Disinfectant	6.18 ± 0.18	0.25
PBS	6.43 ± 0.18	N/A

Conclusion: The neutralized test substance did not have significant viral interference.

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Table 5
Viral Log_{10} Reduction

Test	Contact Time	Input Load ($Log_{10}TCID_{50}$)	Output Load ($Log_{10}TCID_{50}$)	Reduction ($Log_{10}TCID_{50}$)
Zoflora Blue Bell Woods Disinfectant	5 minutes	6.96 ± 0.18	≤ 2.35	≥ 4.61 ± 0.18

"≥" denotes a complete inactivation of virus

Conclusion: Zoflora Blue Bell Woods Disinfectant met the criteria for EN14476 as an effective virucidal agent against SARS-CoV-2 (COVID-19 virus) at 5 minutes.