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 5 Ridgeline Court
 Kuraby QLD, 4112
 AU

Client Account Number: A00819895SK1
 Eurofins Quote Number: XC8UPH20003501

Eurofins Sample Number NJ20AA2481-1

Original Received Date:	13-Feb-2020
Description:	M.A.C Concentrate - Corona Virus Challenge
Lot Number:	022020
Containers Submitted:	1 Bottle(s)

Analysis	Result
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006 Testing of virucidal activity of disinfectants by surface carrier technique	See Attached Report for Result
Refer to Attachment # 1	----

Method: TMCV 006
 Analysis Date: 26-Mar-2020

Supplemental Information

Samples were tested as received. Specifications (if) reported are as provided by the client.

Contracted Company: Eurofins ams Laboratories Sydney

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TGA Licence No: MI-15112007-LI-002191-11 APVMA Licence No: 6139

Questions about this report should be directed to your project manager or the general email listed above.

EXAMINATION:	Virucidal activity of M.A.C Concentrate (Batch 022020) by Carrier Test method
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CONDITIONS	
Virus Strain	Murine hepatitis virus (MHV) -1 ATCC/VR-261
Cell Substrate	A9 cells ATCC/CCL- 1.4
Test Concentration	Neat
Contact Time	10 minutes
Test Temperature	Room temperature
Test Condition	Dirty 5% FBS (Fetal Bovine Serum)
Neutraliser	2% FBS in MM

RESULTS: TABLE 1: MHV-1 virus test/control results for 10 mins contact

Virus Dilution	Number of Inoculated Wells	Virus Control	Cytotoxicity	Neutralisation	Test Sample
10 ⁻¹	4	4 ⁺ /4	C	C	C
10 ⁻²	4	4 ⁺ /4	0 ⁺ /4	4 ⁺ /4	0 ⁺ /4
10 ⁻³	4	4 ⁺ /4	0 ⁺ /4	4 ⁺ /4	0 ⁺ /4
10 ⁻⁴	4	3 ⁺ /4	N/A	N/A	0 ⁺ /4
10 ⁻⁵	4	3 ⁺ /4	N/A	N/A	0 ⁺ /4
10 ⁻⁶	4	2 ⁺ /4	N/A	N/A	N/A
10 ⁻⁷	4	1 ⁺ /4	N/A	N/A	N/A
10 ⁻⁸	4	0 ⁺ /4	N/A	N/A	N/A
Log ₁₀	-	5.78	1.5	1.5	1.5
Log ₁₀ Reduction of Virus after Treatment				4.28	

Note: Presence of virus in each response is recorded as “+”

Absence of virus in each response is recorded as “0”

Cytotoxic response is recorded as “C”

Calculated virus titre = $10^{5.78}$ TCID_{50/0.1ml} (5.78 log₁₀)

Cell control - 4 wells with healthy cell monolayer

* The Reed & Muench LD50 Method was used for determining the virus titre endpoint.

CONCLUSIONS:

Considering the cytotoxicity and neutralisation test results, the sample “M.A.C Concentrate (Batch 022020)” has shown virucidal efficacy against MHV-1 by achieving 4.28 log reduction in virus concentration after 10 minutes exposure period at room temperature.