

Australian Chemical Services Trust
3 Raylor St
Mansfield QLD, 4122
AU

Client Account Number: A00837767OQV
Eurofins Quote Number: XC8UPH20010802

Eurofins Sample Number NJ20AA5061-3

Original Received Date:	21-Apr-2020
Description:	3L Bioprotect Surface Spray Disinfectant - Hospital Grade; Expiry Date: 16.04.21
Lot Number:	160420
Containers Submitted:	1 Bottle(s)

Analysis**006 Testing of virucidal activity of disinfectants by surface carrier technique**

Refer to Attachment # 1

Method: TMCV 006, ASTM 1053

Analysis Date: 22-May-2020

Contracted Company: Eurofins ams Laboratories Sydney

8, Rachael Close, Silverwater, NSW 2128 Australia
amslabs@eurofins.com

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.

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	Clean
Neutraliser	4 cc Sephadex Gel in PBS (Phosphate Buffer Saline)

RESULTS: TABLE 1: MHV-1 test/control results for 10 minutes 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	3 ⁺ /4
10 ⁻³	4	4 ⁺ /4	0 ⁺ /4	4 ⁺ /4	1 ⁺ /4
10 ⁻⁴	4	4 ⁺ /4	N/A	N/A	0 ⁺ /4
10 ⁻⁵	4	4 ⁺ /4	N/A	N/A	0 ⁺ /4
10 ⁻⁶	4	3 ⁺ /4	N/A	N/A	0 ⁺ /4
10 ⁻⁷	4	1 ⁺ /4	N/A	N/A	N/A
10 ⁻⁸	4	N/A	N/A	N/A	N/A
Log ₁₀	-	6.50	1.5	1.5	2.5
Log ₁₀ Reduction of Virus after Treatment				4.00	

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 = $10^{6.50} \text{TCID}_{50/0.1\text{ml}}$ (6.50 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 has shown virucidal efficacy against MHV-1 by achieving 4.00 log reduction in virus concentration after 10 minutes exposure period at room temperature.