

Certificate of Analysis

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Analytical Report: AAS05467

Eurofins Sample Number: NJ21AB3400-5

Version: 1

Advance International Cleaning Systems (NZ) Ltd PO Box 12642 Penrose, Auckland 1642 NZ Client Account Number: A01184126QPX Eurofins Quote Number: UF8DPH21003202

Eurofins Sample Number NJ21AB3400-5

Original Received Date:20-Oct-2021Description:5L GermshieldContainers Submitted:1 Bottle(s)

Analysis

Virucidal Test by Carrier Method

Refer to Attachment # 1

Method: TMCV 006, ASTM E1053 Analysis Date: 04-Nov-2021

Supplemental Information

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

Contracted Company: Eurofins ams Laboratories (Sydney)

8, Rachael Close, Silverwater, NSW 2128 Australia SampleReceiptAMS@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 (MHV1) 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	3 cc Sephadex Gel in PBS (Phosphate Buffer Saline)			

RESULTS: TABLE 1: MHV1 test/control results for 10 minutes contact

Virus Dilution	Number of Inoculated Wells	Virus Control	Percentage	Cytotoxicity	Neutralisation	Test Sample	Percentage
10 ⁻¹	4	4+/4	100.00	С	С	С	N/A
10-2	4	4+/4	100.00	С	С	С	N/A
10-3	4	4+/4	100.00	0+/4	4+/4	0+/4	0.00
10-4	4	4+/4	100.00	N/A	N/A	0+/4	0.00
10-5	4	4+/4	100.00	N/A	N/A	0+/4	0.00
10-6	4	3 ⁺ /4	87.50	N/A	N/A	0+/4	0.00
10 ⁻⁷	4	2+/4	57.14	N/A	N/A	N/A	N/A
10-8	4	2+/4	28.57	N/A	N/A	N/A	N/A
Log ₁₀	-	7.25	-	2.50	2.50	2.50	-
Log ₁₀ Reduction of Virus after Treatment					4.75		

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 = $10^{7.25}$ TCID_{50/0.1ml} (7.25 log₁₀) Cell control - 4 wells with healthy cell monolayer

CONCLUSIONS:

Considering the cytotoxicity and neutralisation test results, the sample has shown virucidal efficacy against MHV1 by achieving 4.75 log reduction in virus concentration after 10 minutes exposure period at room temperature.

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