

Offshoot (NZ) Ltd
34 Rosemont Road
Waihi
Waihi, 3610
NZ

Client Account Number: A00905133OBN
Eurofins Quote Number: X9NBPH20008401

Eurofins Sample Number FQ20AA3579-1

Original Received Date:	27-Aug-2020
Description:	Offshoot Wipes, 500mL
Containers Submitted:	1 Bottle(s)

Analysis

Time Kill Test

Refer to Attachment # 1

Method: TMD 110, EN 1276
Analysis Date: 22-Oct-2020

Testing of virucidal activity of disinfectants by surface carrier technique

Refer to Attachment # 2

Method: TMCV 006, ASTM E1053
Analysis Date: 29-Sep-2020

Supplemental Information

For FQ20AA3579-1:

Solution provided is added to wipes.

Instead of providing wipes for "squeezing" solution out, client has provided the solution added.

Eurofins BPT Testing Facility	Test
Eurofins ams Laboratories Pty Ltd 8, Rachael Close Silverwater, NSW 2128 AUSTRALIA	Testing of virucidal activity of disinfectants by surface carrier technique Time Kill Test

Contracted Company: Eurofins BioPharma Product Testing NZ Ltd

35 O'Rorke Road, Penrose, Auckland 1061 New Zealand
nzbiopharma@eurofins.com

Medsafe GMP certificate number TT60-200-16-3

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	Dirty 5% FBS (Fetal Bovine Serum)
Neutraliser	3 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	C	C	C
10 ⁻³	4	4 ⁺ /4	0 ⁺ /4	4 ⁺ /4	0 ⁺ /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	2 ⁺ /4	N/A	N/A	0 ⁺ /4
10 ⁻⁷	4	2 ⁺ /4	N/A	N/A	N/A
10 ⁻⁸	4	1 ⁺ /4	N/A	N/A	N/A
Log ₁₀	-	6.75	2.5	2.5	2.5
Log ₁₀ Reduction of Virus after Treatment				4.25	

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^{6.75}TCID_{50/0.1ml} (6.75 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 4.25 log reduction in virus concentration after 10 minutes exposure period at room temperature.