

Aussan Laboratories Pty Ltd  
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AU

Client Account Number: A0082313732B  
Eurofins Quote Number: XC8UPH20005001

Eurofins Sample Number NJ20AA2144-1	
<b>Original Received Date:</b>	20-Feb-2020
<b>Description:</b>	Aussan L42 100mL
<b>Containers Submitted:</b>	1 Bottle(s)

Analysis	Result
<b>005 Testing of virucidal activity of disinfectants by suspension technique</b>	See Attached Report for Result
Refer to Attachment # 1	----
Method: EN 14476	
Analysis Date: 20-Mar-2020	

Supplemental Information
<p>Murine hepatitis virus ATCC ® VR-261™ is a member of the Coronavirus family and has been used as a surrogate for the SARS coronavirus in published disinfectant studies*.</p> <p><b>*The antiviral action of common household disinfectants and antiseptics against murine hepatitis virus, a potential surrogate for SARS coronavirus.</b></p> <p><a href="https://www.ncbi.nlm.nih.gov/pubmed/19692148">https://www.ncbi.nlm.nih.gov/pubmed/19692148</a></p> <p><b>*Murine hepatitis virus strain 1 produces a clinically relevant model of severe acute respiratory syndrome in A/J mice.</b></p> <p><a href="https://www.ncbi.nlm.nih.gov/pubmed/17041219">https://www.ncbi.nlm.nih.gov/pubmed/17041219</a></p> <p>The American Type Culture Collection (ATCC) also lists VR-261 under its SARS Research Material.</p> <p>Samples were tested as received. Specifications (if) reported are as provided by the client.</p>

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<b>EXAMINATION:</b>	Virucidal activity of Aussan L42 by Suspension test method
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<b>CONDITIONS</b>	
<b>Virus Strain</b>	Murine hepatitis virus (MHV) -1 ATCC/VR-261
<b>Cell Substrate</b>	A9 cells ATCC/CCL- 1.4
<b>Test Concentration</b>	6% (in hard water)
<b>Contact Time</b>	10 minutes
<b>Test Temperature</b>	Room temperature
<b>Test Condition</b>	Dirty 3% FBS (Fetal Bovine Serum) with 3% erythrocytes (EN14476)
<b>Neutraliser</b>	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 <sup>-1</sup>	4	4 <sup>+</sup> /4	C	C	C
10 <sup>-2</sup>	4	4 <sup>+</sup> /4	0 <sup>+</sup> /4	4 <sup>+</sup> /4	3 <sup>+</sup> /4
10 <sup>-3</sup>	4	4 <sup>+</sup> /4	0 <sup>+</sup> /4	4 <sup>+</sup> /4	2 <sup>+</sup> /4
10 <sup>-4</sup>	4	4 <sup>+</sup> /4	N/A	N/A	0 <sup>+</sup> /4
10 <sup>-5</sup>	4	3 <sup>+</sup> /4	N/A	N/A	0 <sup>+</sup> /4
10 <sup>-6</sup>	4	3 <sup>+</sup> /4	N/A	N/A	0 <sup>+</sup> /4
10 <sup>-7</sup>	4	1 <sup>+</sup> /4	N/A	N/A	N/A
10 <sup>-8</sup>	4	0 <sup>+</sup> /4	N/A	N/A	N/A
Log <sub>10</sub>	-	<b>6.33</b>	<b>1.50</b>	<b>1.50</b>	<b>2.77</b>
Log <sub>10</sub> Reduction of Virus after Treatment				<b>3.56</b>	

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<sup>6.33</sup> TCID<sub>50/0.1ml</sub> (6.33 log<sub>10</sub>)  
 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 “Aussan L42” has shown virucidal efficacy against MHV-1 by achieving 3.56 log reduction in virus concentration after 10 minutes exposure period at room temperature.