



Case Ref. No.: **M88/04/04**
Payment no.: **CVL5224**

Attn: Ms Yap Mee Fah
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#07-15/17
Alexandra Distripark
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LABORATORY REPORT

Type of examination : Virological
Specimen Description : Liquid disinfectant "Bioact-T DS"
Received from : Okada Ecotech Pte Ltd
Date received : 19/04/04
Date tested : 05/05/04 – 11/05/04

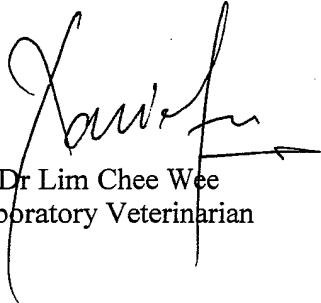
Report:

Please refer to the attached sheet for results of the virucidal activity of the disinfectant against Classical swine fever virus.

The disinfectant was tested according to the method in Annex C.

Test for virucidal activity against Newcastle Disease virus is in progress.

17/05/04


Dr Lim Chee Wee
Laboratory Veterinarian

Notes : All results in this report are applicable only to the respective specimen(s) tested. This test report shall not be reproduced except in full, without written approval from our laboratory.

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Test Results:

Table 1: Effects of Bioact-T DS disinfectant on **Classical Swine Fever Virus** following a **45** and **60** minutes exposure at a dilution of **1:80**

Dilution of Disinfectant	1:80*		Virus Control (TCID ₅₀ /0.2ml)
Exposure Time	Virus Titre (TCID ₅₀ /0.2ml)	% Reduction	
45 min	≤10 ^{1.5}	≥99.8	10 ^{4.2}
60 min	≤10 ^{1.5}	≥99.8	

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Annex C

- I Test substance : Bioact-T DS BN 2004041301
- II Dilution : 1:80
- III Virus : Classical Swine Fever virus (CSFV)
- IV Exposure Time : 45 and 60 minutes
- V Exposure Temperature : Room temperature (28⁰C, +/- 1⁰C)
- VI Host : Primary Pig Testicles
- VII Neutralising solution (NS) : Sodium Thiosulfate (0.1%)
- VIII Method:
1. The disinfectant was diluted to 1:40 with deionised, distilled water and sterilized by filtration through a 0.2µm filter membrane on the day of test.
 2. 1 ml of each of the diluted test substance was added to an equal volume of CSFV. Final dilution of test substance: 1:80.
 3. After an exposure time of 45 and 60 minutes at room temperature (28⁰C, +/- 1⁰C), 0.5ml of the virus-disinfectant mixture was added to 2ml of the neutralising solution.
 4. The mixtures were then serially diluted up to 10⁻⁷.
 5. Include virus (virus + NS), cytotoxicity (diluted disinfectant + NS), neutralizing effectiveness (diluted disinfectant + NS + low titre virus) and negative (virus diluent only) controls.
 6. 0.2ml of each of the virus dilution was added to their respective tissue culture tubes containing 0.8ml of PT cells.
 7. The tubes were incubated at 37⁰C for 5 days, with a media refeed on day 2 post-inoculation.
 8. The tubes were then challenged with 5% NewCastle Disease virus and incubated at 37⁰C for 1 day.
 9. The cell culture was observed under the microscope for the presence of cytopathic effect.
 10. The virus titre was calculated using the Karber's method.

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