

BluScientific Test Data

Test Report Standard Test Method for Efficacy of Antimicrobial Agents Against Viruses in Suspension.

Feline Calicivirus (Human Norovirus surrogate).

Test Laboratory

BluScientific Test Data

School of Life Sciences
Glasgow Caledonian University
GLASGOW
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Identification of sample

Name of the product
Manufacturer

ASPERTICO
UNICO LIMITED, NORT MAIN STREET, CARRONSHORE,
FALKIRK, SCOTLAND FK2 BHT.

Date of Delivery
Storage conditions
Product diluent
Active substances

21.6.2006
4°C and darkness
Hard Water
Not known.

Test Method and its validation

Method
Neutralizer

Dilution-neutralization
Dulbecco's modified Eagles medium + 5% v/v Foetal bovine serum.

Experimental Conditions

Period of analysis
Product diluent used
Product test concentrations
Appearance product dilutions
Contact time
Test temperature
Interfering substance
Stability of mixture
Temperature of incubation
Identification of virus

12TH – 16TH AUGUST 2006.
Sterile hard water
2.0% V/V, 10.0% V/V, 80% V/V.
Colourless, clear product solution
t = 5min ± 10 s
20°C ± 1°C
0.6 g/l foetal bovine serum
Precipitate absent throughout the test
37°C ± 1°C
Feline calicivirus/FEA cells. (Human norovirus surrogate).

Test Result (See table 1)

Conclusion.

ASPERTICO when diluted at 2.00% (V/V) in hard water, possesses virucidal activity in five minutes at 20°C under clean conditions (0,6 g/L protein as foetal bovine serum) for feline calicivirus (human norovirus surrogate).

Signed



Dr Chris Woodall, Director, BluScientific Test Data., 8th SEPTEMBER 2006. Glasgow, UK.

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Suspension test results for the efficacy of ASPERTICO disinfectant against Feline Calicivirus for UNICO Ltd.

5 mins contact	VIRUS RECOVERY (TCID ₅₀ /mL)	CYTOTOXICITY (1% Disinfectant) (≡ TCID ₅₀ /mL)	2% (v/v) DISINFECTANT (TCID ₅₀ /mL)	10.0% (v/v) DISINFECTANT (TCID ₅₀ /mL)	80.0% (v/v) DISINFECTANT (TCID ₅₀ /mL)	Comments: VIRUCIDAL
1	3.16x10 ⁸	3.16 x10 ⁴	6.76 x10 ²	3.16 x10 ³	3.16 x10 ⁴	
2	2.14x10 ⁸	3.16 x10 ⁴	1.48 x10 ³	3.16 x10 ³	3.16 x10 ⁴	
3	3.16x10 ⁸	3.16 x10 ⁴	2.14 x10 ³	3.16 x10 ³	3.16 x10 ⁴	
4	3.16x10 ⁸	3.16 x10 ⁴	3.16 x10 ³	3.16 x10 ³	3.16 x10 ⁴	
mean	2.91x10 ⁸	3.16 x10 ⁴	1.86 x10 ³	3.16 x10 ³	3.16 x10 ⁴	
log	8.46	4.50	3.27	3.50	4.50	
log difference		3.96	5.19	4.96	3.96*	

Comments:

ACTIVITY IS BASED ON A REDUCTION IN VIRUS VIABILITY OF A MINIMUM OF 4 LOG₁₀. This therefore represents a minimum value.

Stock FCV: 2.14 x10⁹

Residual efficacy control: minimum positive cpe for FCV at 10⁻⁴ dilution of ASPERTICO disinfectant after neutralisation.

* This result is due to residual cytotoxicity of the disinfectant at this concentration of disinfectant.