

Test Report EN 14476

Test Laboratory

BluScientific Test Data
 School of Life Sciences
 Glasgow Caledonian University
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 G4 0BA

Identification of sample

Name of the product	AMITY VIRUSOLVE+
Manufacturer	AMITY LTD, LIBRA HOUSE, SPRING PARK, CLAYBURN ROAD, PARK SPRINGS, BARNSELY UK- S72 7FD.
Date of Delivery	23 RD AUGUST 2011
Storage conditions	ROOM TEMPERATURE.
Product diluent	Hard Water
Active substances	Bis (3-aminopropyl) dodecylamine

Test Method and its validation

1 part interfering substance + 1 part virus suspension + 8 parts biocide were mixed and incubated at the indicated contact temperature for the indicated contact times. Neutralization was by dilution in Dulbecco's modified Eagle's medium + 5% V/V foetal bovine serum at 4 C. Tissue culture infectious dose-50 assays were then carried out on serial ten-fold dilutions, 6 replicates/dilution. Calculation was by the method of Karber. Positive controls were incubated with sterile synthetic hard water and evaluated at 0 and 60 minutes contact. Tests were validated by a neutralization control, cytotoxicity control, virotoxicity control and a formaldehyde internal standard.

Experimental Conditions

Period of analysis	August 2011.
Product diluent used	Sterile hard water
Product test concentrations	5% V/V
Appearance product dilutions	Colourless, clear product solution
Contact time	5 min \pm 10 s; 60 min \pm 10 s
Test temperature	20 °C \pm 1 °C
Interfering substance	0.6g/L foetal bovine serum
Stability of mixture	Precipitate absent throughout the test
Temperature of incubation	37 °C \pm 1 °C
Identification of virus	Feline Coronavirus (human surrogate for SARS)

TEST RESULTS (SEE TABLES BELOW)

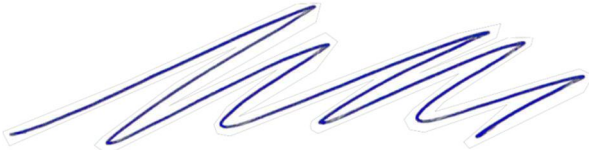
AMITY VIRUSOLVE+

Feline Coronavirus	STOCK	Virus recovery (0')	Virus recovery (60')	Cytotoxicity	5 minutes	60 minutes
	(TCID ₅₀ /ml)	(TCID ₅₀ /ml)	(TCID ₅₀ /ml)	(TCID ₅₀ /ml)	(TCID ₅₀ /ml)	(TCID ₅₀ /ml)
CLEAN	1.48E+09	3.16E+08	3.16E+08	3.16E+03	3.16E+03	3.16E+03
	mean log	9.17	8.50	8.50	3.50	3.50
	LOG DIFFERENCE				>5.00	>5.00

Conclusion

According to EN 14476 a pass is achieved by a 4 log₁₀ reduction in viral infectivity after 60 minutes contact at 20°C. In addition Amity Ltd requested contact times of 5 and 60 minutes. Amity Virusolve+ possesses antiviral activity against library strains Feline Coronavirus (human surrogate for SARS) at 5% v/v under clean conditions for a contact time of 5 minutes.

Signed



Dr Chris Woodall, Director, BluScientific Test Data, 23rd August 2011
Glasgow, UK