

Test Report EN 14476. CORONAVIRUS (SARS).

Test Laboratory

BLUSCIENTIFIC TEST DATA
School of Life Sciences
Glasgow Caledonian University
GLASGOW
G4 0BA

Identification of sample

Name of the product
Manufacturer

ALTOS 71129D.
ALTOS LLC, 841 APOLLO ST,
SUITE 334, EL SEGUNDO,
CALIFORNIA 90245, USA

Date of Delivery
Storage conditions
Product diluent
Active substances

13 DECEMBER 2007
ROOM TEMPERATURE.
Hard Water
Not known.

Test Method and its validation

Method

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. Assays were validated by a cytotoxicity control, virotoxicity control, neutralization control and a formaldehyde internal standard.

Dilution-neutralization
Neutralizer

Dulbecco's modified Eagles medium + 5% v/v Foetal bovine serum at 4°C.

Experimental Conditions

Period of analysis
Product diluent used
Product test concentrations
Appearance product dilutions
Contact time
Test temperature
Interfering substance

12 – 16 APRIL 2008.
Sterile hard water
1.0 % V/V, 2.0 % V/V, 4.0 % V/V.
Colourless, clear product solution
1 min ± 10 s;
20°C ± 1 °C
DIRTY CONDITIONS: 3.0% W/V BSA + 3.0% sheep erythrocytes.

Stability of mixture
Temperature of incubation
Identification of virus

Precipitate absent throughout the test
37 °C ± 1 °C
FELINE CORONAVIRUS/CRFK cells

Test Result (See table)

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ALTOS 71129D, EN 14476 CORONAVIRUS DIRTY CONDITIONS, 2008.

Conditions	Virus recovery (0') (TCID ₅₀ /ml)	Virus recovery (1') (TCID ₅₀ /ml)	Cytotoxicity (4%) (TCID ₅₀ /ml)	4% disinfectant (TCID ₅₀ /ml)	2% disinfectant (TCID ₅₀ /ml)	1% disinfectant (TCID ₅₀ /ml)
dirty (+RBC)(+BSA) mean log LOG REDUCTION	3.16E+06 6.50	3.16E+06 6.50	3.16E+04 4.50	3.16E+03 >3.00	3.16E+03 >3.00	3.16E+02 2.50 >4.00
dirty control (+BSA) mean log LOG REDUCTION	1.00E+06 6.00	3.16E+05 5.50	3.16E+03 3.50	3.16E+03 >2.50	3.16E+03 >2.50	3.16E+02 2.50 >3.50

According to EN 14476: 2005 ALTOS 71129D shows virucidal activity (>log 4.0 reduction against FELINE CORONAVIRUS/CRFK cells at a contact time of 1 minute under DIRTY CONDITIONS at a concentration of 1.0% V/V.

Signed



Dr Chris Woodall, Director BluScientific Test Data, 7 MAY 2008, Glasgow, UK.



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Test Data is based in the School of Life Sciences at Glasgow Caledonian University.