

# Test Report EN 14476

## Test Laboratory

BluScientific Test Data  
 School of Life Sciences  
 Glasgow Caledonian University  
 GLASGOW  
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## Identification of sample

|                     |   |
|---------------------|---|
| Name of the product | AMITY VIRUSOLVE+  |
| Manufacturer        | AMITY LTD, LIBRA HOUSE, SPRING PARK,<br>CLAYBURN ROAD, PARK SPRINGS, BARNSELY UK-<br>S72 7FD. |
| Date of Delivery    | 23 <sup>RD</sup> 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)

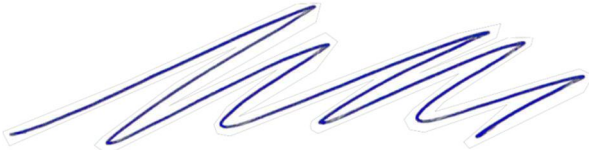
AMITY VIRUSOLVE+

| Feline Coronavirus | STOCK                    | Virus recovery (0')      | Virus recovery (60')     | Cytotoxicity             | 5 minutes                | 60 minutes               |
|--------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
|                    | (TCID <sub>50</sub> /ml) | (TCID <sub>50</sub> /ml) | (TCID <sub>50</sub> /ml) | (TCID <sub>50</sub> /ml) | (TCID <sub>50</sub> /ml) | (TCID <sub>50</sub> /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 log<sub>10</sub> 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, 23<sup>rd</sup> August 2011  
Glasgow, UK