

# BluScientific Test Data

**Tested as Aspertico, subsequently changed to UniSafe+.**

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

## **Bovine Viral Diarrhea Virus (Hepatitis C Virus surrogate).**

### **Test Laboratory**

### **BluScientific Test Data**

School of Life Sciences  
Glasgow Caledonian University  
GLASGOW  
G4 0BA

### **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

12<sup>TH</sup> – 16<sup>TH</sup> AUGUST 2006.  
Sterile hard water  
2.0% V/V, 10.0% V/V, 80% V/V.  
Colourless, clear product solution  
 $t = 5\text{min} \pm 10\text{ s}$   
 $20^\circ\text{C} \pm 1^\circ\text{C}$   
0.6 g/l foetal bovine serum  
Precipitate absent throughout the test  
 $37^\circ\text{C} \pm 1^\circ\text{C}$   
Bovine Viral Diarrhea Virus 1 (ATCC VR-1422). BT cells.

### **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 Bovine viral diarrhoea virus- (Hepatitis C virus surrogate).

Signed



Dr Chris Woodall  
Director, BluScientific Test Data.  
8<sup>th</sup> SEPTEMBER 2006. Glasgow, UK.

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## Suspension test results for the efficacy of ASPERTICO disinfectant against Bovine Viral Diarrhea

5 mins contact	VIRUS RECOVERY (TCID <sub>50</sub> /mL)	CYTOTOXICITY (1% Disinfectant) (≡ TCID <sub>50</sub> /mL)	2% (v/v) DISINFECTANT (TCID <sub>50</sub> /mL)	10.0% (v/v) DISINFECTANT (TCID <sub>50</sub> /mL)	80.0% (v/v) DISINFECTANT (TCID <sub>50</sub> /mL)
1	3.16 x10 <sup>7</sup>	3.16 x10 <sup>4</sup>	<3.16 x10 <sup>2</sup>	3.16 x10 <sup>3</sup>	3.16 x10 <sup>4</sup>
2	6.76 x10 <sup>7</sup>	3.16 x10 <sup>4</sup>	<3.16 x10 <sup>2</sup>	3.16 x10 <sup>3</sup>	3.16 x10 <sup>4</sup>
3	6.76 x10 <sup>7</sup>	3.16 x10 <sup>4</sup>	<3.16 x10 <sup>2</sup>	3.16 x10 <sup>3</sup>	3.16 x10 <sup>4</sup>
4	3.16 x10 <sup>7</sup>	3.16 x10 <sup>4</sup>	<3.16 x10 <sup>2</sup>	3.16 x10 <sup>3</sup>	3.16 x10 <sup>4</sup>
mean	4.96 x10 <sup>7</sup>	3.16 x10 <sup>4</sup>	<3.16 x10 <sup>2</sup>	3.16 x10 <sup>3</sup>	3.16 x10 <sup>4</sup>
log	7.70	4.50	2.50	3.50	4.50
log difference			5.20	4.20	3.20*

Virus for UNICO ltd..

### Comments:

**VIRUCIDAL ACTIVITY IS BASED ON A REDUCTION IN VIRUS VIABILITY OF A MINIMUM OF 4 LOG<sub>10</sub>. This therefore represents a minimum value.**

Stock BVDV: 1.48 x10<sup>8</sup>

Residual efficacy control: minimum positive cpe for BVDV at 10<sup>-4</sup> dilution of ASPERTICO disinfectant after neutralisation.

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