



miriusTM
global hygiene solutions

the new name for **Coventry Chemicals**

Super Antiviral Disinfectant: Summary of Efficacy

Virus Efficacy

TEST METHOD: BS EN 14476:2013 + A2:2019 Chemical disinfectants and antiseptics – Quantitative suspension test for the evaluation of virucidal activity in the medical area- Test method and requirements (Phase 2/Step 1)

TEST OUTCOME

Testing Laboratory Statement: According to EN 14476:2013 + A2:2019, **Antiviral Disinfectant POSSESSES VIRUCIDAL** activity at a concentration of **50.0% v/v** as tested after **5 MINUTES** at **20°C** under **CLEAN** conditions (0.3 g/l bovine albumin) against *Vaccinia virus* VR-1549 Elstree strain / Vero cells.

This product therefore is effective against all enveloped viruses as defined in EN 14476:2013 + A2:2019. This therefore includes all coronaviruses and SARS-CoV-2.

TEST LABORATORY: BluTest Laboratories Ltd., 5 Robroyston Oval, Nova Business Park, Glasgow, G33 1AP.

IDENTIFICATION of SAMPLE

Name of the product: Antiviral Disinfectant

Batch number: Not supplied

Client: Coventry Chemicals

Client Address: Woodhams Road, Siskin Drive, Coventry, United Kingdom, CV3 4FX

Project Code: BT-COV-06FT(2)-02

Date of Delivery: 18 February 2020

Storage conditions: Ambient

Active substances: Quarternary Ammonium compounds; Benzyl-C12-18 Alkyldimethyl, Chlorides

Appearance: Liquid

miriusTM

A Coventry Group Company,
Woodhams Road, Siskin Drive,
Coventry, England, CV3 4FX.

T: +44(0) 2476 639739

F: +44(0) 2476 639717

E: orders@mirius.com

www.mirius.com

V1-09.03.20



Company Registration No. 1205963
VAT Registration No. GB806613345



miriusTM
global hygiene solutions

the new name for **Coventry Chemicals**

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, interference control, neutralisation control and a formaldehyde internal standard. Neutralisation Dilution-neutralisation/gel filtration Eagles Minimum Essential Medium + 5.0% v/v foetal bovine serum at 4°C

EXPERIMENTAL CONDITIONS

Period of analysis: 21 February 2020 to 26 February 2020

Product diluents used: Sterile distilled water

Product test concentrations: 80% v/v; 50% v/v; 10% v/v

Appearance product dilutions: No changes noted- stable

Appearance in test mixture: Turbidity and sedimentation observed in 80.0% v/v and 50.0%

Contact times: (minutes) 5 ± 10s

Test temperature 20°C + 1°C

Interfering substances 0.3g/l bovine albumin

Temperature of incubation 37°C + 1°C + 5% CO₂

Identification and passage (P) of virus *Vaccinia virus* VR-1549 Elstree strain (P6)

Identification and passage (P) of cells Vero Cells (P 31) (*Vaccinia Virus*)

EN14476:2013 + A2:2019 Suspension test for the efficacy of Antiviral Disinfectant, BT-COV-06-02 from Coventry Chemicals against *Vaccinia virus* VR-1549 under Clean conditions

Summary Table

Product	Interfering Substance	Concentration	Cytotoxicity	Log TCID ₅₀					>4.0 log reduction after x min
				0 min	5 min	15 min	30 min	60 min	
Antiviral Disinfectant	0.3g/l BSA	80%	2.50	2.50	2.50	n/a	n/a	n/a	>5 min
		50%	2.50	n/a	1.50	n/a	n/a	n/a	<5 min
		10%	2.50	n/a	3.83	n/a	n/a	n/a	>5 min
Virus Control	Clean			6.00	6.00	6.17	n/a	n/a	n/a
							5 min	15 min	
Formaldehyde	PBS	0.7% (w/v)	2.50				4.67	2.50	>60 min

Note: To Manufacturers for disinfectant products making claims against coronavirus. Claims against Wuhan 2019 COVID-19

miriusTM

A Coventry Group Company,
Woodhams Road, Siskin Drive,
Coventry, England, CV3 4FX.

T: +44(0) 2476 639739

F: +44(0) 2476 639717

E: orders@mirius.com

www.mirius.com

Company Registration No. 1205963
VAT Registration No. GB806613345

V1-09.03.20





mirius[™]
global hygiene solutions

the new name for **CoventryChemicals**

For each formulation: The minimum requirement for a claim is a pass to EN 14476:2013 + A2 2019 or EN 14476: 2013 + A1 2015 (hand products) against vaccinia virus (at less than 2 minutes for hand products and less than 5 minutes for surface products). **This covers all enveloped viruses including all coronaviruses.**

A pass against EN 14476:2013, EN 14476:2013 + A1 2015, EN 14476:2013 + A2 2019 to either limited spectrum virucidal activity or full virucidal activity allows a claim against Wuhan virus.

mirius[™]

A Coventry Group Company,
Woodhams Road, Siskin Drive,
Coventry, England, CV3 4FX.

T: +44(0) 2476 639739

F: +44(0) 2476 639717

E: orders@mirius.com

www.mirius.com

Company Registration No. 1205963
VAT Registration No. GB806613345

V1-09.03.20





miriusTM
global hygiene solutions

the new name for CoventryChemicals

Bactericidal Efficacy

EN1276

Super Antiviral Disinfectant has been tested to EN1276 under dirty conditions for various exposure times.

The result show that **Super Antiviral Disinfectant** exceeds the performance requirements of BS EN1276 by providing a 5 log in 30 seconds reduction for the following organisms.

Organism	Test	Conditions	Time	Pass Requirement	Result	Result
<i>Pseudomonas aeruginosa</i>	EN1276	Dirty	30 sec.	5 log	>5.20	Pass
<i>Escherichia coli</i>	EN1276	Dirty	30sec.	5 log	>5.20	Pass
<i>Staphylococcus aureus</i>	EN1276	Dirty	30 sec.	5 log	>5.17	Pass
<i>Enterococcus hirae</i>	EN1276	Dirty	30 sec.	5 log	>5.15	Pass
<i>Salmonella Typhimurium</i>	EN1276	Dirty	30 sec	5log	>5.50	Pass
<i>Methicilin-Resistant Staphylococcus aureus</i>	EN1276	Dirty	30 sec.	5 log	>5.41	Pass
<i>Listeria Monocytogenes</i>	En1276	Dirty	5 min	5 log	> 5.53	Pass

Certificate No. 16G.043IB.CVC/18F.050ILm.CVC/CVC.19K156.IMr2 /CVC.19K156.ISt2- Full test details available on request.

EN13697

Super Antiviral Disinfectant has been tested to EN13697 under dirty conditions.

The result demonstrate that **Super Antiviral Disinfectant** exceeds the performance requirements of BS EN13697 by providing a 5 log in 5 minutes reduction for the following organisms.

Organism	Test	Conditions	Time	Pass Requirement	Result	Result
<i>Pseudomonas aeruginosa</i>	EN13697	Dirty	5 min.	4 log	4.09	Pass
<i>Escherichia coli</i>	EN13697	Dirty	5 min.	4 log	>5.00	Pass
<i>Staphylococcus aureus</i>	EN13697	Dirty	5 min.	4 log	>5.16	Pass
<i>Enterococcus hirae</i>	EN13697	Dirty	5 min.	4 log	>5.04	Pass

Certificate No. 15M.018SB.CVC/ - Full test details available on request.

miriusTM

A Coventry Group Company,
Woodhams Road, Siskin Drive,
Coventry, England, CV3 4FX.

T: +44(0) 2476 639739

F: +44(0) 2476 639717

E: orders@mirius.com

www.mirius.com

V1-09.03.20



Company Registration No. 1205963
VAT Registration No. GB806613345



mirius[™]
global hygiene solutions

the new name for **Coventry Chemicals**

EN13727

Super Antiviral Disinfectant has been tested to EN13727 under dirty conditions.

The result demonstrate that **Super Antiviral Disinfectant** exceeds the performance requirements of BS EN13727 by providing a 5 log in 30 seconds reduction for the following organisms.

Organism	Test	Conditions	Time	Pass Requirement	Result	Result
<i>Pseudomonas aeruginosa</i>	EN13727	Dirty	30 sec	5 log	>5.17	Pass
<i>Staphylococcus aureus</i>	EN13727	Dirty	30 sec	5 log	>5.17	Pass
<i>Enterococcus hirae</i>	EN13727	Dirty	30 sec	5 log	>5.11	Pass

Certificate No. 16G.043MB.CVC - Full test details available on request.

mirius[™]

A Coventry Group Company,
Woodhams Road, Siskin Drive,
Coventry, England, CV3 4FX.

T: +44(0) 2476 639739

F: +44(0) 2476 639717

E: orders@mirius.com

www.mirius.com

V1-09.03.20



Company Registration No. 1205963
VAT Registration No. GB806613345