

Company Name: BG Products Inc

Contact Name: Mr John Buche

Contact Email:

Purchase Order No: 12856-A

Report Date: 10/08/2020

Melbec Ref Number: 16499

No. of Samples: 1

Name of Test Product: Surface Disinfectant - Automotive Sanitizing Spray

Batch Number: #1

Sample Details:

Manufacture / Supplier:.....	BG Products Inc
Product storage conditions:.....	Ambient
Appearance of the product (as supplied):.....	Clear colourless
Appearance of the product (after dilution):.....	N/A
Appearance of product with interfering substance and test organism:	Opaque
Active substance and concentration:.....	DDAC
Product dilutions/concentrations:.....	Ready to Use (RTU)
Diluent used to dilute product:.....	N/A
Incubation temperature:	36 degrees

The test product was in satisfactory condition for testing when received.

Date product received: 23/04/20	Test Date: 27/04/20
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Experimental Conditions:

Interfering substance:	Bovine Albumin (dirty 3.0g/l)
Test temperature:	18 to 25 °C
Contact time:	5 Minutes
Test organisms:	Pseudomonas aeruginosa ATCC 15442
	Staphylococcus aureus ATCC 6538
	Escherichia coli ATCC 10536
	Enterococcus hirae ATCC 10541

Requirements of the Standard:

The test product shall demonstrate at least a 5 decimal logarithm (lg) reduction when tested in accordance with this standard under simulated clean or dirty conditions.

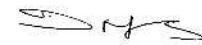
Conclusion:

For the product Surface Disinfectant - Automotive Sanitizing Spray, [#1] the log reduction requirements as specified in EN 1276:2019 (5 lg within the relevant contact time) were met.

Testing carried out by:

Name: Danika Weatherburn
Position: Lab Manager

Report authorised by:



Name: Dawn Mellors
Position: Technical Director
Date: 10/08/2020

Test Results:

Neutralisation Method Used:

Membrane filtration

Rinsing Liquid Used: N7

***Pseudomonas aeruginosa* ATCC
15442**

Validation and controls									Melbec Ref No	16499	
Validation suspension (Nv_0)			Experimental conditions control (A)			Neutralizer control (B)			Method validation (C) Product conc: RTU		
Vc 1	64	$\bar{X} =$	Vc 1	42	$\bar{X} =$	Vc 1	64	$\bar{X} =$	Vc 1	49	$\bar{X} =$
Vc 2	62	63	Vc 2	29	35.5	Vc 2	76	70	Vc 2	44	46.5
30 ≤ \bar{X} of Nv_0 ≤ 160? Yes			\bar{X} of A is ≥ 0.5 x \bar{X} of Nv_0 ? Yes			\bar{X} of B is ≥ 0.5 x \bar{X} of Nv_0 ? Yes			\bar{X} of C is ≥ 0.5 x \bar{X} of Nv_0 ? Yes		

Test suspension and test

Test suspension (N and N_0):	N	Vc 1	Vc 2	X_m 3.35E+08 ; lg N = 8.53
	10^{-6}	>330	>330	$N_0 = N/10$; lg $N_0 =$ 7.53
	10^{-7}	38	29	7.17 ≤ lg N_0 ≤ 7.70? Yes \bar{X} quotient = >5 and <15? N/A

Conc. of the active (%)	Vc 1	Vc 2	$Na = \bar{X} \times 10$	lgNa	lgR $N_0 =$	Contact time	Result
RTU	<14	<14	1.40E+02	<2.15	7.53 >5.38	5 Minutes	Pass

**Staphylococcus aureus ATCC
6538**

Validation and controls									Melbec Ref No	16499	
Validation suspension (Nv_0)			Experimental conditions control (A)			Neutralizer control (B)			Method validation (C) Product conc: RTU		
Vc 1	78	$\bar{x} =$	Vc 1	102	$\bar{x} =$	Vc 1	71	$\bar{x} =$	Vc 1	95	$\bar{x} =$
Vc 2	69	73.5	Vc 2	81	91.5	Vc 2	66	68.5	Vc 2	85	90
$30 \leq \bar{x} \text{ of } Nv_0 \leq 160?$ Yes			$\bar{x} \text{ of A is } \geq 0.5 \times \bar{x} \text{ of } Nv_0?$ Yes			$\bar{x} \text{ of B is } \geq 0.5 \times \bar{x} \text{ of } Nv_0?$ Yes			$\bar{x} \text{ of C is } \geq 0.5 \times \bar{x} \text{ of } Nv_0?$ Yes		

Test suspension and test

Test suspension (N and N_0):	N	Vc 1	Vc 2	X_m 3.00E+08 ; $\lg N =$ 8.48
	10^{-6}	>330	>330	$N_0 = N/10$; $\lg N_0 =$ 7.48
	10^{-7}	26	34	$7.17 \leq \lg N_0 \leq 7.70?$ Yes $\bar{x} \text{ quotient} = >5 \text{ and } <15?$ N/A

Conc. of the active (%)	Vc 1	Vc 2	$Na = \bar{x} \times 10$	$\lg Na$	$\lg R$ $N_0 =$ 7.48	Contact time	Result
RTU	<14	<14	1.40E+02	<2.15	>5.33	5 Minutes	Pass

Escherichia coli ATCC 10536

Validation and controls									Melbec Ref No	16499	
Validation suspension (N_{v0})			Experimental conditions control (A)			Neutralizer control (B)			Method validation (C) Product conc: RTU		
Vc 1	100	$\bar{x} =$	Vc 1	95	$\bar{x} =$	Vc 1	81	$\bar{x} =$	Vc 1	65	$\bar{x} =$
Vc 2	85	92.5	Vc 2	103	99	Vc 2	94	87.5	Vc 2	79	72
30 ≤ \bar{x} of N_{v0} ≤ 160? Yes			\bar{x} of A is ≥ 0.5 x \bar{x} of N_{v0} ? Yes			\bar{x} of B is ≥ 0.5 x \bar{x} of N_{v0} ? Yes			\bar{x} of C is ≥ 0.5 x \bar{x} of N_{v0} ? Yes		

Test suspension and test

Test suspension (N and N_0):	N	Vc 1	Vc 2	X_m 4.60E+08 ; $\lg N =$ 8.66
	10^{-6}	>330	>330	$N_0 = N/10$; $\lg N_0 =$ 7.66
	10^{-7}	45	47	7.17 ≤ $\lg N_0$ ≤ 7.70? Yes \bar{x} quotient = >5 and <15? N/A

Conc. of the active (%)	Vc 1	Vc 2	$N_a = \bar{x} \times 10$	$\lg N_a$	$\lg R$ $N_0 =$ 7.66	Contact time	Result
RTU	<14	<14	1.40E+02	<2.15	>5.52	5 Minutes	Pass

Enterococcus hirae ATCC 10541

Validation and controls									Melbec Ref No	16499	
Validation suspension (N_{v0})			Experimental conditions control (A)			Neutralizer control (B)			Method validation (C) Product conc: RTU		
Vc 1	62	$\bar{x} =$	Vc 1	50	$\bar{x} =$	Vc 1	61	$\bar{x} =$	Vc 1	60	$\bar{x} =$
Vc 2	65	63.5	Vc 2	57	53.5	Vc 2	61	61	Vc 2	78	69
30 ≤ \bar{x} of N_{v0} ≤ 160? Yes			\bar{x} of A is ≥ 0.5 x \bar{x} of N_{v0} ? Yes			\bar{x} of B is ≥ 0.5 x \bar{x} of N_{v0} ? Yes			\bar{x} of C is ≥ 0.5 x \bar{x} of N_{v0} ? Yes		

Test suspension and test

Test suspension (N and N_0):	N	Vc 1	Vc 2	X_m 2.90E+08 ; $\lg N =$ 8.46
	10^{-6}	>330	>330	$N_0 = N/10$; $\lg N_0 =$ 7.46
	10^{-7}	27	31	7.17 ≤ $\lg N_0$ ≤ 7.70? Yes \bar{x} quotient = >5 and <15? N/A

Conc. of the active (%)	Vc 1	Vc 2	$N_a = \bar{x} \times 10$	$\lg N_a$	$\lg R$ $N_0 =$ 7.46	Contact time	Result
RTU	<14	<14	1.40E+02	<2.15	>5.32	5 Minutes	Pass