

Company Name: T R Bonnyman Son & Co Ltd

Contact Name: David Dickie

Contact Email: david@bonnymans.co.uk

Purchase Order No: 25251

Report Date: 25/04/2020

Melbec Ref Number: 16347

No. of Samples: 1

Name of Test Product: Alcohol Rinse (WHO)

Batch Number: AT150420B

Sample Details:

Manufacture / Supplier:..... T R Bonnyman Son & Co Ltd
Product storage conditions:..... Ambient
Appearance of the product (as supplied):..... Clear liquid
Appearance of the product (after dilution):..... Clear liquid
Appearance of product with interfering substance and test organism: Opaque liquid
Active substance and concentration:..... Alcohol
Product dilutions/concentrations:..... Ready to Use (RTU)
Diluent used to dilute product:..... Synthetic Hard Water

Incubation temperature: 36 degrees

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

Date product received: 17/04/20 Test Date: 18/04/20

Experimental Conditions:

Interfering substance: Bovine Albumin (clean 0.3g/l)
Test temperature: 18 to 25 °C
Contact time: 60 Seconds
Test organisms: Pseudomonas aeruginosa ATCC 15442
Staphylococcus aureus ATCC 6538
Escherichia coli K12 NCTC 10538
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.

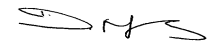
Conclusion:

For the product Alcohol Rinse (WHO), [AT150420B] the log reduction requirements as specified in EN 1276:2019 (5 lg within the relevant contact time) were met.

Testing carried out by:

Name: Gemma Morgan
Position: Technical Manager

Report authorised by:



Name: Dawn Mellors
Position: Technical Director
Date: 25/04/2020

***Pseudomonas aeruginosa* ATCC
15442**

Validation and controls									Melbec Ref No		16347
Validation suspension (Nv_0)			Experimental conditions control (A)			Neutralizer control (B)			Method validation (C) Product conc: RTU%		
Vc 1	72	$\bar{X} =$	Vc 1	46	$\bar{X} =$	Vc 1	66	$\bar{X} =$	Vc 1	52	$\bar{X} =$
Vc 2	69	70.5	Vc 2	45	45.5	Vc 2	59	62.5	Vc 2	48	50
$30 \leq \bar{X} \text{ of } Nv_0 \leq 160?$ 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 3.30E+08 ; $\lg N =$ 8.52
	10^{-6}	>330	>330	$N_0 = N/10$; $\lg N_0 =$ 7.52
	10^{-7}	34	32	$7.17 \leq \lg N_0 \leq 7.70?$ Yes $\bar{X} \text{ quotient} = >5 \text{ and } <15?$ N/A

Conc. of the active (%)	Vc 1	Vc 2	$N_a = \bar{X} \times 10$	$\lg N_a$	$\lg R$ $N_0 =$ 7.52	Contact time	Result
RTU%	<14	<14	1.40E+02	<2.15	>5.37	60 Seconds	Pass
50%	<14	<14	1.40E+02	<2.15	>5.37	60 Seconds	Pass
10%	<14	<14	1.40E+02	<2.15	>5.37	60 Seconds	Pass

***Staphylococcus aureus* ATCC
6538**

6538									Validation and controls			Melbec Ref No	16347
Validation suspension (Nv_0)			Experimental conditions control (A)			Neutralizer control (B)			Method validation (C) Product conc: RTU%				
Vc 1	62	$\bar{X} =$	Vc 1	78	$\bar{X} =$	Vc 1	60	$\bar{X} =$	Vc 1	65	$\bar{X} =$		
Vc 2	52	57	Vc 2	60	69	Vc 2	59	59.5	Vc 2	62	63.5		
$30 \leq \bar{X} \text{ of } Nv_0 \leq 160?$ 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	$X_{wm} = 2.17E+08$; $\lg N = 8.34$		
	10^{-6}	229	192	$N_0 = N/10$; $\lg N_0 = 7.34$		
	10^{-7}	29	28	$7.17 \leq \lg N_0 \leq 7.70?$ Yes		
				$\bar{X} \text{ quotient} = >5 \text{ and } <15?$ 7.39		

Conc. of the active (%)	Vc 1	Vc 2	$Na = \bar{X} \times 10$	$\lg Na$	$\lg R$ $N_0 = 7.34$		Contact time	Result
RTU%	<14	<14	1.40E+02	<2.15		>5.19	60 Seconds	Pass
50%	<14	<14	1.40E+02	<2.15		>5.19	60 Seconds	Pass
10%	<14	<14	1.40E+02	<2.15		>5.19	60 Seconds	Pass

***Escherichia coli* K12 NCTC**
10538

10538									Validation and controls			Melbec Ref No	16347
Validation suspension (Nv_0)			Experimental conditions control (A)			Neutralizer control (B)			Method validation (C) Product conc: RTU%				
Vc 1	59	$\bar{X} =$	Vc 1	51	$\bar{X} =$	Vc 1	63	$\bar{X} =$	Vc 1	57	$\bar{X} =$		
Vc 2	45	52	Vc 2	44	47.5	Vc 2	47	55	Vc 2	50	53.5		
$30 \leq \bar{X} \text{ of } Nv_0 \leq 160?$ 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_{wm} 2.43E+08 ; $\lg N =$ 8.39
	10^{-6}	257	213	$N_0 = N/10$; $\lg N_0 =$ 7.39
	10^{-7}	34	31	$7.17 \leq \lg N_0 \leq 7.70?$ Yes $\bar{X} \text{ quotient} = >5 \text{ and } <15?$ 7.23

Conc. of the active (%)	Vc 1	Vc 2	$Na = \bar{X} \times 10$	$\lg Na$	$\lg R$ $N_0 =$ 7.39		Contact time	Result
RTU%	<14	<14	1.40E+02	<2.15		>5.24	60 Seconds	Pass
50%	<14	<14	1.40E+02	<2.15		>5.24	60 Seconds	Pass
10%	<14	<14	1.40E+02	<2.15		>5.24	60 Seconds	Pass

***Enterococcus hirae* ATCC 10541**

cus hirae ATCC 10541

Validation and controls									Melbec Ref No		16347	
Validation suspension (Nv_0)			Experimental conditions control (A)			Neutralizer control (B)			Method validation (C) Product conc: RTU%			
Vc 1	96	$\bar{X} =$	Vc 1	87	$\bar{X} =$	Vc 1	124	$\bar{X} =$	Vc 1	76	$\bar{X} =$	
Vc 2	76	86	Vc 2	79	83	Vc 2	111	117.5	Vc 2	69	72.5	
$30 \leq \bar{X} \text{ of } Nv_0 \leq 160?$ 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 3.25E+08 ; $\lg N =$ 8.51
	10^{-6}	>330	>330	$N_0 = N/10$; $\lg N_0 =$ 7.51
	10^{-7}	40	25	$7.17 \leq \lg N_0 \leq 7.70?$ Yes $\bar{X} \text{ quotient} = >5 \text{ and } <15?$ N/A

Conc. of the active (%)	Vc 1	Vc 2	$N_a = \bar{X} \times 10$	$\lg N_a$	$\lg R$ $N_0 =$ 7.51	Contact time	Result
RTU%	<14	<14	1.40E+02	<2.15	>5.37	60 Seconds	Pass
50%	<14	<14	1.40E+02	<2.15	>5.37	60 Seconds	Pass
10%	<14	<14	1.40E+02	<2.15	>5.37	60 Seconds	Pass