

Company Name: TR Bonnyman Son & Co
Contact Name: David Dickie
Contact Email: david@bonnymans.co.uk
Purchase Order No: N/A

Report Date: 19/05/2020

Melbec Ref Number: 16910
No. of Samples: 1

Name of Test Product: BAC 5 Revised
Batch Number: N/A

Sample Details:

Manufacture / Supplier:..... TR Bonnyman Son & Co
Product storage conditions:..... Ambient
Appearance of the product (as supplied):..... Pink
Appearance of the product (after dilution):..... N/A
Active substance and concentration:..... BAC 5 Revised
Product dilutions/concentrations:..... Ready to Use (RTU)
Diluent used to dilute product:..... N/A
Incubation temperature:..... 36 °C ± 1 °C (24h)

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

Date product received: 08/05/20

Test Date: 13/05/20

Experimental Conditions:

Interfering substance: Bovine Albumin (dirty 3.0g/l)
Test temperature: 18 to 25 degrees
Contact time: 5 minutes
Test organisms: *Staphylococcus aureus* ATCC 6538

Requirements of the Standard:

The test product shall demonstrate at least a 4 decimal logarithm (lg) reduction for bacteria and a at least a 3 decimal logarithm (lg) reduction for fungi when tested in accordance with this standard under simulated clean or dirty conditions.

Conclusion:

The test product met the requirements of the standard for the test organism *Staphylococcus aureus* in dirty conditions with a 5 minute contact time.

Testing carried out by:

Name: Yvie Newall
Position: Senior Microbiologist

Report authorised by:



Name: Dawn Mellors
Position: Technical Director
Date: 19/05/2020

Test Results:

Neutralisation Method Used:

Dilution neutralisation by pour plate

Neutraliser used N1

Viable Counts (Nc, Nd & Nts)

Nc is the mean log number of organisms per test surface of the water control at the end of the contact time

Nd is the mean log number of organisms per test surface of the disinfectant test at the end of the contact time

Nts is the mean number of organisms remaining on the test surface at the end of the test.

NC is the neutraliser control

NT is the method validation

Log Reduction:

Log reduction (R) = $\text{Log}N_c - \text{Log}N_d$

Bacterial or Fungal Test Suspension (N) (cfu/disc)

	<i>Staphylococcus aureus</i> ATCC 6538		
Count	-6	192	182
	-7	30	24
Weighted Mean	1.95E+08		
Lg	8.29		
6.57<N<7.10	6.69		

Validation and Controls (Counts on Test Surfaces)

	<i>Staphylococcus aureus</i> ATCC 6538					
	NT			NC		
Count	-3	>330	>330	-3	>330	>330
	-4	94	75	-4	118	68
Weighted Mean	8.45E+06			9.30E+06		
Lg	6.93			6.97		
NC - Nc (Not > +/- 0.3lg)	-			0.15		
NT - Nc (Not > +/- 0.3lg)	0.11			-		

Determination of Microbicidal Activity (Nd) and Water Control (Nc) (Count/Test Surface)

Staphylococcus aureus ATCC 6538

10 ^x	Water Control (Nc)		Test Procedure (Nd)	
			RTU (1 minute)	
-1	-		<14	<14
-	-		-	-
-3	>330	>330	-	
-4	70	62	-	
Mean	6.60E+06		<1.40E+02	
Lg	6.82		<2.15	
Nts	>100		0	
R			>4.67	

Note:

Viable counts of 1-14 (below the lower limit) are expressed as $<1.4 \times 10^2$ (<2.15 Log)

Viable counts of 0 are expressed as < 0.10 Log

Viable counts >330 for bacteria and yeasts and >165 for mould (higher than the upper limit) are expressed as $> 3.3 \times 10^5$ (>5.52 log) or $> 1.65 \times 10^5$ (>5.22 log)

Nts counts of >100 are expressed as >100

Method Verification:

For Each Test:	
The mean counts used for calculation of N, Nc, Nd, NC and NT are between 14 and 330 for bacteria and yeasts and 14 and 165 for moulds	Yes
$6.57 \leq N \leq 7.10$ for bacteria in dirty conditions and clean conditions (except <i>Pseudomonas aeruginosa</i>) and for <i>Candida albicans</i> in clean conditions	Yes
$7.57 \leq N \leq 8.10$ for <i>Pseudomonas aeruginosa</i> in clean conditions	N/A
$5.57 \leq N \leq 6.10$ for <i>Candida albicans</i> in dirty conditions and <i>Aspergillus brasiliensis</i>	N/A
NC-Nc is not $> \pm 0.3$ log	Yes
NT-Nc is not $> \pm 0.3$ log	Yes
Nts is <100 cfu for active concentrations	Yes
Weighted mean quotient for N is $5 \leq N \leq 15$	Yes
Nc is sufficiently high to demonstrate a 4 lg reduction for bacteria and a 3 lg reduction for fungi	Yes

The sample detailed in this report will be retained for 1 month after report date, unless otherwise requested.

The results on this report refer to the items tested only.

Sample description (name of product) and batch references (batch number) stated are as provided by the customer.

This report shall not be reproduced in part or full without written permission from Melbec Microbiology Limited.

****End of test report****