

Test Report for a General-Purpose Disinfectant Product

BS EN 1650:2019

Company: X-Mist Limited
102 Tettenhall Road,
Wolverhampton,
WV6 0BW

Contact name: David Muirhead
Contact email:
Purchase order number: 12856-A

Date of report: 03/05/2020

Melbec reference number: 16495
No. of samples: 1

Name of Test Product: X-MIST ULTIMATE ALL-ROUND SANITIZER
Batch number: #1

Sample Details:

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Manufacturer / Supplier:	X-Mist Limited
Product storage conditions:	Ambient
Appearance of the product (as supplied):	Clear Liquid
Appearance of the product (after dilution):	Clear Liquid
Appearance of the product with interfering substance and test organism:	Slightly Grey
Active substance and concentration:	DDAC
Product dilutions/concentrations:	RTU
Diluent used to dilute product:	NA

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

Date product received: 23/04/2020

Date product tested: 28/04/2020

Experimental Conditions:

Interfering substance:	Bovine Albumin (dirty 3.0g/l)
Test temperature:	20°C
Contact time:	5 min
Test organisms:	<i>Candida albicans</i> ATCC 10231, <i>Aspergillus brasiliensis</i> ATCC 16404
Incubation temperature:	30°C ± 1°C

Deviations from the standard:

Obligatory / specific purposes: Client only requested testing on the product as a single concentration.

Requirements of the Standard:

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

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Conclusion:

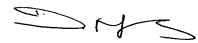
The product X-MIST ULTIMATE ALL-ROUND SANITIZER (Batch Code: #1) did not meet the log reduction requirements as specified in EN 1650 (4 lg within the relevant contact time) for the *Aspergillus brasiliensis* and hence a fungicidal claim cannot be made.

The product X-MIST ULTIMATE ALL-ROUND SANITIZER (Batch Code: #1) met the log reduction requirements as specified in EN 1650 (4 lg within the relevant contact time) for the *Candida albicans* and hence a yeasticidal claim can be made.

Testing carried out by:

Danika Weatherburn
Lab Manager

Report authorised by:



Dawn Mellors
Technical Director

Test Results:

Membrane Filtration:

Rinsing Liquid: N7

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Candida albicans:

Validation and Controls:

Validation Suspension (Nv ₀)			Experimental Conditions Control (A)			Neutraliser or Filtration Control (B)			Method Validation (Product Conc RTU) (C)		
Vc1	63	Mean 6.0 x 10 ¹	Vc1	61	Mean 6.5 x 10 ¹	Vc1	66	Mean 7.1 x 10 ¹	Vc1	59	Mean 5.45 x 10 ¹
Vc2	57		Vc2	69		Vc2	76		Vc2	70	
Is the mean of Nv ₀ between 30 and 160:			Is the mean of A ≥ 0.5 x the mean of Nv ₀			Is the mean of B ≥ 0.5 x the mean of Nv ₀			Is the mean of C ≥ 0.5 x the mean of Nv ₀		
Yes:X		No:	Yes:X		No:	Yes:X		No:	Yes:X		No:

Test Suspension: (N & N₀):

N:

Dilution:	Vc1	Vc2	Mean	
			cfu	lgN
1) 10 ⁻⁵	>330	>330	4.3 x 10 ⁷	7.63
2) 10 ⁻⁶	46	40		

N₀:

N ₀ (N/10) =	4.3 x 10 ⁶	lg N ₀ =	6.63
Is lg N ₀ between 6.17 and 6.70 (required inoculum)		Yes:X	No:

Test (Na and IgR):

% Final Conc of Product Tested:	Vc1	Vc2	Na (mean of Vc1 & Vc2 x10)	lgNa	IgR (lgN ₀ -lgNa)
1: RTU	<14	<14	<1.4 x 10 ²	<2.15	>4.48

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Aspergillus brasiliensis:

Validation and Controls:

Validation Suspension (Nv ₀)			Experimental Conditions Control (A)			Neutraliser or Filtration Control (B)			Method Validation (Product Conc RTU) (C)		
Vc1	134	Mean 1.14 x 10 ²	Vc1	60	Mean 6.4 x 10 ¹	Vc1	68	Mean 7.4 x 10 ¹	Vc1	66	Mean 6.75 x 10 ¹
Vc2	93		Vc2	68		Vc2	80		Vc2	69	
Is the mean of Nv ₀ between 30 and 160:			Is the mean of A ≥ 0.5 x the mean of Nv ₀			Is the mean of B ≥ 0.5 x the mean of Nv ₀			Is the mean of C ≥ 0.5 x the mean of Nv ₀		
Yes:X		No:	Yes:X		No:	Yes:X		No:	Yes:X		No:

Test Suspension: (N & N₀):

N:

Dilution:	Vc1	Vc2	Mean	
			cfu	lgN
1) 10 ⁻⁵	>165	>165	4.55 x 10 ⁷	7.66
2) 10 ⁻⁶	48	43		

N₀:

N ₀ (N/10) =	4.55 x 10 ⁶	lg N ₀ =	6.66
Is lg N ₀ between 6.17 and 6.70 (required inoculum)		Yes:X	No:

Test (Na and IgR):

% Final Conc of Product Tested:	Vc1	Vc2	Na (mean of Vc1 & Vc2 x10)	lgNa	lgR (lgN ₀ -lgNa)
1: RTU	>165-2	>165-2	>1.65 x 10 ⁴	>4.22	<2.60

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****

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