



Test Report General-Purpose Disinfectant Product
BS EN 1650:2019

Company Name: Vapourtec Ltd

Contact Name: [REDACTED]

Contact Email: [REDACTED]

Purchase Order No: [REDACTED]

Report Date: 03/08/2021

Melbec Ref Number: 29663

No. of Samples: 1

Name of Test Product: General Purpose Disinfectant

Batch Number: N/A

Sample Details:

Manufacture / Supplier:.....	Vapourtec Ltd
Product storage conditions:.....	Ambient
Appearance of the product (as supplied):.....	Clear colourless liquid
Appearance of the product (after dilution):.....	NA
Appearance of product with interfering substance and test organism:.....	Cloudy opaque liquid(Candida albicans), Black liquid (Aspergillus brasiliensis)
Active substance and concentration:.....	HOCL
Product dilutions/concentrations:.....	Liquid generated at 187.5ppm to give a final concentration in test of 150ppm
Diluent used to dilute product:.....	NA

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

Date product received: 12/07/21

Test Date: 26/07/21

Experimental Conditions:

Interfering substance:	Bovine Albumin (clean 0.3g/l)
Test temperature:	20°C±1°C
Contact time:	5 Minutes
Test organisms:	Candida albicans ATCC 10231 Aspergillus brasiliensis ATCC 16404
Incubation temperature:	30°C +/- 1°C

Deviations: Product tested at one concentration at client request.

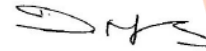
Requirements of the Standard:

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

Conclusion:

For the product General Purpose Disinfectant, [Batch code N/A] the log reduction requirements as specified in EN 1650:2019 (4 lg within the relevant contact time) were met for *Candida albicans* but not for *Aspergillus brasiliensis* in clean conditions with a contact time of 5 minutes.
A yeasticidal claim could be made for the product but not a fungicidal claim.

Report authorised by:



Name: Dawn Mellors
Position: Technical Director
Date: 03/08/2021

Test Results:

Neutralisation Method Used:

Dilution neutralisation by pour plate

Neutraliser used N1

Candida albicans ATCC 10231

Validation and controls									Melbec Ref No	29663	
Validation suspension (Nv ₀)			Experimental conditions control (A)			Neutralizer control (B)			Method validation (C) Product conc: 150ppm		
Vc 1	89	$\bar{x} =$	Vc 1	55	$\bar{x} =$	Vc 1	81	$\bar{x} =$	Vc 1	82	$\bar{x} =$
Vc 2	89	89	Vc 2	51	53	Vc 2	66	73.5	Vc 2	73	77.5
30 ≤ X' of Nv ₀ ≤ 160? Yes			X' of A is ≥ 0.5 x X' of Nv ₀ ? Yes			X' of B is ≥ 0.5 x X' of Nv ₀ ? Yes			X' of C is ≥ 0.5 x X' of Nv ₀ ? Yes		

Test suspension and test

	N	Vc 1	Vc 2	X _{wm}	3.05E+07	; lg N =	7.48
Test suspension (N and N ₀):	10 ⁻⁵	317	287	N ₀ = N/10		; lg N ₀ =	6.48
	10 ⁻⁶	36	32	6.17 ≤ lg N ₀ ≤ 6.70?		Yes	
				\bar{x} quotient = >5 and <15?			8.88

Conc. of the active (%)	10 ^{-x}	Vc 1	Vc 2	Na = \bar{x}	lg Na	lgR N ₀ =	6.48	Contact time	Result
150ppm	-1	<14	<14	1.40E+02	<2.15	>4.34		5 Minutes	Pass

***Aspergillus brasiliensis* ATCC
 16404**

Validation and controls										Melbec Ref No	29663
Validation suspension (Nv ₀)			Experimental conditions control (A)			Neutralizer control (B)			Method validation (C) Product conc: 150ppm		
Vc 1	110	$\bar{x} =$	Vc 1	59	$\bar{x} =$	Vc 1	77	$\bar{x} =$	Vc 1	91	$\bar{x} =$
Vc 2	102	106	Vc 2	52	55.5	Vc 2	62	69.5	Vc 2	87	89
30 ≤ x' of Nv ₀ ≤ 160? Yes			x' of A is ≥ 0.5 x x' of Nv ₀ ? Yes			x' of B is ≥ 0.5 x x' of Nv ₀ ? Yes			x' of C is ≥ 0.5 x x' of Nv ₀ ? Yes		

Test suspension and test

Test suspension (N and N ₀):	N	Vc 1	Vc 2	X m	4.45E+07	; lg N =	7.65
	10 ⁻⁵	>165	>330	N ₀ = N/10		; lg N ₀ =	6.65
	10 ⁻⁶	48	41	6.17 ≤ lg N ₀ ≤ 6.70?	Yes	\bar{x} quotient = >5 and <15?	N/A

Conc. of the active (%)	10 ^{-x}	Vc 1	Vc 2	Na = \bar{x}	lg Na	lg R N ₀ =	6.65	Contact time	Result
150ppm	-1	>165	>165	1.65E+04	>4.22	<2.43	5 Minutes	Fail	
	-2	>165	>165						