Abbott Analytical

Consulting Scientists to the Disinfectant Industry

Test Report

Product name:	Safe4 Disinfectant Cleaner Concentrate		
Batch or ref no:			
Manufacturer or supplier:	Safe Solutions (Safe4) Ltd Wharton Green House, Bostock Road, Winsford, CW7 3BD		
Sample ref:	17L/021	**Date received:**	9 November 2017
Date tested:	8 December 2017	**Certificate date:**	11 December 2017
Certificate no:	17L.021VMn.SSL	**Page:**	1 of 3
Analysis required:	EN 1657:2016, Chemical disinfectants and antiseptics - Quantitative suspension test for the evaluation of fungicidal activity of chemical disinfectants and antiseptics used in the veterinary area - Test method and requirements (phase 2, step 1)		
Storage conditions:	Room temperature in darkness		
Appearance of product (solution):	Dark green liquid		
Active substance(s) and their concentration(s):	Not disclosed		

Notes

The test results in this report relate only to the sample(s) tested.
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Experimental conditions

Concentration(s) of product tested:	1:50 v/v
Product diluent:	Sterile hard water (300 mg/l $CaCO_3$)
Test organism(s):	*Microsporum canis* (NCPF 946)
Contact time(s):	30 min ± 10 s
Test temperature:	10 °C ± 1 °C
Test conditions:	High-level soiling
Interfering substance:	10 g/l bovine albumin + 10 g/l yeast extract
Method:	Dilution-neutralisation
Neutralising solution:	100 g/l Polysorbate 80 + 30 g/l Lecithin + 30 g/l Tryptone Soya Broth + 5 g/l Sodium thiosulphate + 1g/l L-histidine
Incubation temperature:	30 °C ± 1 °C

Conclusion

When tested at a concentration of 1:50 this sample of Safe4 Disinfectant Cleaner Concentrate meets the requirements of EN 1657:2016 for fungicidal activity in 30 minutes at 10 °C, under high-level soiling conditions, against the referenced strain of *Microsporum canis*.

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Results: *Microsporum canis* (NCPF 946)

Validation and controls:

Validation suspension (Nv_o)			Experimental conditions control (A)			Neutralizer or filtration control (B)			Method validation (C)		
$Vc1$	37	$\bar{x}$ =	$Vc1$	39	$\bar{x}$ =	$Vc1$	40	$\bar{x}$ =	$Vc1$	37	$\bar{x}$ =
$Vc2$	40	38.5	$Vc2$	41	40	$Vc2$	39	39.5	$Vc2$	36	36.5
$30 \leq \bar{x}\ (Nv_o) \leq 160$? ☒ yes ☐ no			$\bar{x}\ (A) \geq 0.5 \times \bar{x}\ (Nv_o)$? ☒ yes ☐ no			$\bar{x}\ (B) \geq 0.5 \times \bar{x}\ (Nv_o)$? ☒ yes ☐ no			$\bar{x}\ (C) \geq 0.5 \times \bar{x}\ (Nv_o)$? ☒ yes ☐ no		

Test suspension:
(N and N_o)

N	$Vc1$	$Vc2$	$\bar{x}$(wm) = 3.00 x10^{7} ; lg N = 7.48
10^{-5}	>165	>165	$N_o = N/10$; lg N_o = 6.48
10^{-6}	29	31	$6.17 \leq \lg N_o \leq 6.70$? ☒ yes ☐ no
Control of weighted mean counts (N)			Quotient = N/A Between 5 and 15 ? ☐ yes ☐ no

Test:

Product test conc.	Contact time	$Vc1$	$Vc2$	Na = ($\bar{x}$ x10)	lg Na =	lg R = (lg N_o − lg Na)	Status
1:50	30 min	0	0	< 140	< 2.15	> 4.33	PASS

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