Abbott Analytical

Consulting Scientists to the Disinfectant Industry

Certificate of Analysis

Product name:	Safe4 Disinfectant Cleaner Concentrate		
Batch or ref no:			
Manufacturer or supplier:	Safe Solutions (DBG) Ltd. Wharton Green House, Bostock Road, Winsford, CW7 3BD		
Sample ref:	15E/223	**Date received:**	27 May 2015
Date tested:	22 July 2015	**Certificate date:**	27 July 2015
Certificate no:	15E.223VTr.SSL	**Page:**	1 of 3
Analysis required:	EN 1657:2005, 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):	Clear colourless liquid		
Active substance(s) and their concentration(s):	Not declared		

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:	1:100 v/v
Product diluent:	Sterile hard water (300mg/l $CaCO_3$)
Test organism(s):	*Trichophyton rubrum* (NCPF 0117)
Contact time(s):	30 min ± 10s
Test temperature:	10°C ± 1°C
Test conditions:	High-level soiling
Interfering substance:	10g/l bovine albumin + 10g/l yeast extract
Method:	Dilution-neutralisation
Neutralising solution:	30g/l Polysorbate 80 + 3g/l Lecithin + 1g/l L-histidine + 1g/l L-cysteine
Incubation temperature:	30°C ± 1°C

Conclusion

When tested at a concentration of 1:100 this sample of Safe4 Disinfectant Cleaner Concentrate passes the requirements of EN 1657:2005 for fungicidal activity in 30 minutes at 10°C, under high-level soiling conditions, against *Trichophyton rubrum* (NCPF 0117).

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Results: Trichophyton rubrum (NCPF 0117)

Validation and controls:

Validation suspension (Nv_o)			Experimental conditions control (A)			Neutralizer or filtration control (B)			Method validation (C)		
Vc1	*112*	$\bar{x}$ =	*Vc1*	*103*	$\bar{x}$ =	*Vc1*	*114*	$\bar{x}$ =	*Vc1*	*108*	$\bar{x}$ =
Vc2	*125*	118.5	*Vc2*	*126*	114.5	*Vc2*	*94*	104	*Vc2*	*140*	124
$30 \leq \bar{x}\ (Nv_o) \leq 160$? ☒ *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 = 1.65 x10^{7} ; lg *N* = 7.22
10^{-5}	*>165*	*>165*	$N_o = N/10$; lg N_o = 6.22
10^{-6}	*16*	*17*	$6.17 \leq \lg N_o \leq 6.70$? ☒ *yes* ☐ *no*
Control of weighted mean counts			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 = 6.22)	Status
1:100	*30 min*	*17*	*12*	< 155	< 2.19	> 4.03	*PASS*

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