BluTest
GLOBAL MICROBIOLOGY EXPERTISE

Test Report EN 1657 Chemical disinfectants and antiseptics - Quantitative suspension test for the evaluation of fungicidal activity of chemical disinfectants and antiseptics used in veterinary field - Test method and requirements (phase 2/step 1)
MICROSPORUM CANIS

Test Laboratory	**BluTest Laboratories Ltd** Robertson Incubator (Level 4) Robertson Building 56 Dumbarton Road Glasgow, G11 6NU, UK
Identification of sample	
Name of the product	**VETGENE SURFACE SANITISER**
Batch number	N/A
Client	**Vet Hygiene Solutions Ltd, 14 Great South Road, Pokenko, New Zealand**
Project Code	BT-VHS-01
Date of Delivery	27 March 2013
Storage	Keep cool in well-ventilated area
Active substances	Quarternary Ammonium compounds < 10%, Octyl amine oxide <5%, Ethanol <2%
Test Method and its validation	
Method	Filtration-neutralization
Neutralizer	Lecithin 3g/l, Polysorbate 80 30g/l, sodium thiosulphate 5g/l, L-histidine 1g/l, sodium chloride 8.5g/l, tryptone 1.0g/l, phosphate buffer 0.0025mol/l, sterilized by autoclave
Experimental Conditions	
Period of analysis	7 to 13 May 2013
Product diluent used	Sterile, synthetic hard water
Product test concentrations	1.0% V/V (adjusted final test concentration)
Appearance product dilutions	Clear
Contact time (minutes)	t = 5 ± 10 s
Test temperature	20°C ± 1°C
Interfering substance	0.3 g/l bovine albumin
Stability of mixture	Stable
Temperature of incubation	30°C ± 1°C
Identification of strain	*Microsporum canis* CBS 132.88

Comments: Product was received as a 1/4 strength solution. To give the correct final test concentration of 1.0% the product was diluted 1/20 (1.25 x final test concentration) and tested at 80.0% V/V with the addition of 8 parts test agent to 1 part microbial suspension and 1 part interfering substance.

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EN 1657: *Microsporum canis* for VETGENE SURFACE SANITISER from Vet Hygiene Solutions Ltd under CLEAN conditions

Test organisms	Validation test				Fungal test suspension (N)	Exposure	Test procedure at concentration % (V/V)	
	Fungal Suspension (Nv)	Experimental conditions (A)	Neutralizer toxicity Control or filtration control (B)	Dilution-neutralization control or filtration test control (C)				1.00%
Microsporum canis CBS 132.88	*N* v: 7.90E+02	A: 6.55E+01	B: 8.25E+01	C: 7.50E+01	10^{-5}: 285 ; 261 10^{-6}: 25 ; 30 N: 2.75E+07	5	Vc Na R	0 ; 0 <1.40E+02 >10(4)
Vc:	79 ; 79	70 ; 61	80 ; 85	75 ; 75				
Validation	$30 \leq Nv_0 \leq 160$?	$A \geq 0.5 \times Nv_0$?	$B \geq 0.5 \times Nv_0$?	$C \geq 0.5 \times Nv_0$?	$6.17 \leq \log N_0 \leq 6.70$?		Test is valid	
	yes	yes	yes	yes	yes			

Please note: The upper limit for *M canis* on membranes is 55 and should be entered as >55.

Vc = viable count.

N = number of cfu/ml of the fungal test suspension:

Nv = number of cfu/ml in the fungal suspension

R = reduction in viability

N a = number of cfu/ml in the test mixture

A = number of cfu/ml of the experimental conditions validation

B = number of cfu/ml of the neutralizer toxicity validation or of the filtration validation

C = the number of cfu/ml of the dilution-neutralization validation or the membrane filtration test validation

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Conclusion

According to the EN 1657 protocol, **VETGENE SURFACE SANITISER** possesses fungicidal activity after 5 minutes (> 4.0 $\log_{10}$ reduction) at 20°C under CLEAN conditions (0.3 g/l bovine serum albumin) for the reference strain *Microsporum canis* CBS 132.88 at a concentration of 1.0% V/V.

Signed

Dr Chris Woodall, Director
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Glasgow, UK
16 May 2013

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