



# Abbott Analytical



Consulting Scientists to the Disinfectant Industry

## Test Report

**Product name:** TK Swordsman

**Batch or ref no:**

**Manufacturer or supplier:** G Shepherd Farm Animal Health Ltd  
Wrainhow Business Centre, Lewth Lane, Woodplumpton, Preston,  
PR4 0TS

**Sample ref:** 18C/064                      **Date received:** 26 March 2018

**Date tested:** 4 April 2018                      **Certificate date:** 13 April 2018

**Certificate no:** 18C.064VTmMn.GSH                      **Page:** 1 of 4

**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.  
This test report may not be reproduced except in full, adapted, altered or used  
to create a derivative work, without written approval from Abbott Analytical.

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## Experimental conditions

**Concentration(s) of product tested:** 1:30, 1:100 v/v

**Product diluent:** Sterile hard water (300 mg/l CaCO<sub>3</sub>)

**Test organism(s):** *Trichophyton mentagrophytes* (NCPF 0224)  
*Microsporum canis* (NCPF 0946)

**Contact time(s):** 30 min ± 10 s

**Test temperature:** 10 °C ± 1 °C

**Test conditions:** Low-level soiling

**Interfering substance:** 3.0 g/l bovine albumin

**Method:** Dilution-neutralisation

**Neutralising solution:** 30 g/l Polysorbate 80 + 3 g/l Lecithin +  
1 g/l L-histidine + 1 g/l L-cysteine

**Incubation temperature:** 30 °C ± 1 °C

## Conclusion

When tested at concentrations of 1:30 and 1:100 this sample of TK Swordsman meets the requirements of EN 1657:2016 for fungicidal activity in 30 minutes at 10 °C, under low-level soiling conditions, against the referenced strains of *Trichophyton mentagrophytes* and *Microsporum canis*.

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**Results: *Trichophyton mentagrophytes* (NCPF 0224)**

**Validation and controls:**

Validation suspension ( $Nv_o$ )			Experimental conditions control (A)			Neutralizer or filtration control (B)			Method validation (C)		
Vc1	59	$\bar{x} =$	Vc1	60	$\bar{x} =$	Vc1	57	$\bar{x} =$	Vc1	62	$\bar{x} =$
Vc2	63	61	Vc2	61	60.5	Vc2	61	59	Vc2	60	61
30 ≤ $\bar{x}$ ( $Nv_o$ ) ≤ 160 ? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no			$\bar{x}$ (A) ≥ 0.5 × $\bar{x}$ ( $Nv_o$ ) ? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no			$\bar{x}$ (B) ≥ 0.5 × $\bar{x}$ ( $Nv_o$ ) ? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no			$\bar{x}$ (C) ≥ 0.5 × $\bar{x}$ ( $Nv_o$ ) ? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no		

**Test suspension:  
(N and  $N_o$ )**

N	Vc1	Vc2	$\bar{x}$ $w_m = 1.57 \times 10^{-7}$ ; lg N = 7.20
10 <sup>-5</sup>	154	161	$N_o = N/10$ ; lg $N_o = 6.20$
10 <sup>-6</sup>	16	15	6.17 ≤ lg $N_o$ ≤ 6.70 ? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no
Control of weighted mean counts			Quotient = 10.16 Between 5 and 15 ? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no

**Test:**

Product test conc.	Contact time	Vc1	Vc2	$N_a = \bar{x} \times 10$	lg $N_a$	lg R (lg $N_o = 6.20$ )	Status
1:30	30 min	0	0	< 140	< 2.15	> 4.05	PASS
1:100	30 min	0	0	< 140	< 2.15	> 4.05	PASS

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**Results: *Microsporium canis* (NCPF 0946)**

**Validation and controls:**

Validation suspension ( $N_{v_o}$ )			Experimental conditions control (A)			Neutralizer or filtration control (B)			Method validation (C)		
Vc1	50	$\bar{x} =$	Vc1	51	$\bar{x} =$	Vc1	49	$\bar{x} =$	Vc1	53	$\bar{x} =$
Vc2	47	48.5	Vc2	49	50	Vc2	49	49	Vc2	51	52
30 ≤ $\bar{x}$ ( $N_{v_o}$ ) ≤ 160 ? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no			$\bar{x}$ (A) ≥ 0.5 × $\bar{x}$ ( $N_{v_o}$ ) ? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no			$\bar{x}$ (B) ≥ 0.5 × $\bar{x}$ ( $N_{v_o}$ ) ? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no			$\bar{x}$ (C) ≥ 0.5 × $\bar{x}$ ( $N_{v_o}$ ) ? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no		

**Test suspension:  
(N and  $N_o$ )**

N	Vc1	Vc2	$\bar{x}$ $w_m = 1.85 \times 10^7$ ; $\lg N = 7.27$
$10^{-5}$	>165	>165	$N_o = N/10$ ; $\lg N_o = 6.27$
$10^{-6}$	18	19	6.17 ≤ $\lg N_o$ ≤ 6.70 ? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no
Control of weighted mean counts			Quotient = N/A Between 5 and 15 ? <input type="checkbox"/> yes <input type="checkbox"/> no

**Test:**

Product test conc.	Contact time	Vc1	Vc2	$N_a = \bar{x} \times 10$	$\lg N_a$	$\lg R$ ( $\lg N_o = 6.27$ )	Status
1:30	30 min	0	0	< 140	< 2.15	> 4.12	PASS
1:100	30 min	0	0	< 140	< 2.15	> 4.12	PASS

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