



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.064VF.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 CaCO₃)

Test organism(s): *Aspergillus brasiliensis* (DSM 1988)
Candida albicans (DSM 1386)

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 *Aspergillus brasiliensis* and *Candida albicans*.

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Results: *Aspergillus brasiliensis* (DSM 1988)

Validation and controls:

Validation suspension (Nv_o)			Experimental conditions control (A)			Neutralizer or filtration control (B)			Method validation (C)		
Vc1	41	$\bar{x} =$	Vc1	40	$\bar{x} =$	Vc1	39	$\bar{x} =$	Vc1	40	$\bar{x} =$
Vc2	40	40.5	Vc2	40	40	Vc2	43	41	Vc2	37	38.5
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} $w_m = 2.20 \times 10^7$; $\lg N = 7.34$
10^{-5}	>165	>165	$N_o = N/10$; $\lg N_o = 6.34$
10^{-6}	21	23	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	$N_a = \bar{x} \times 10$	$\lg N_a$	$\lg R$ ($\lg N_o = 6.34$)	Status
1:30	30 min	0	0	< 140	< 2.15	> 4.19	PASS
1:100	30 min	9	8	< 140	< 2.15	> 4.19	PASS

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Results: *Candida albicans* (DSM 1386)

Validation and controls:

Validation suspension (N_{v_o})			Experimental conditions control (A)			Neutralizer or filtration control (B)			Method validation (C)		
Vc1	88	$\bar{x} =$	Vc1	87	$\bar{x} =$	Vc1	87	$\bar{x} =$	Vc1	81	$\bar{x} =$
Vc2	93	90.5	Vc2	91	89	Vc2	84	85.5	Vc2	89	85
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} $w_m = 4.70 \times 10^7$; $\lg N = 7.67$
10^{-5}	>330	>330	$N_o = N/10$; $\lg N_o = 6.67$
10^{-6}	49	45	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	$N_a = \bar{x} \times 10$	$\lg N_a$	$\lg R$ ($\lg N_o = 6.67$)	Status
1:30	30 min	0	0	< 140	< 2.15	> 4.52	PASS
1:100	30 min	0	0	< 140	< 2.15	> 4.52	PASS

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