



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:** 9 April 2018

Certificate no: 18C.064VEc.GSH **Page:** 1 of 3

Analysis required: EN 1656:2009, Chemical disinfectants and antiseptics -
Quantitative suspension test for the evaluation of
bactericidal 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): *Escherichia coli* (DSM 682)

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: 36 °C ± 1 °C

Conclusion

When tested at concentrations of 1:30 and 1:100 this sample of TK Swordsman meets the requirements of EN 1656:2009 for bactericidal activity in 30 minutes at 10 °C, under low-level soiling conditions, against the referenced strain of *Escherichia coli*.

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Results: *Escherichia coli* (DSM 682)

Validation and controls:

Validation suspension (Nv_o)			Experimental conditions control (A)			Neutralizer or filtration control (B)			Method validation (C)		
Vc1	60	$\bar{x} =$	Vc1	57	$\bar{x} =$	Vc1	62	$\bar{x} =$	Vc1	60	$\bar{x} =$
Vc2	61	60.5	Vc2	58	57.5	Vc2	60	61	Vc2	60	60
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} (wm) = 4.80 × 10 ⁸ ; lg N = 8.68
10 ⁻⁶	>330	>330	$N_o = N/10$; lg N_o = 7.68
10 ⁻⁷	49	47	7.17 ≤ lg N_o ≤ 7.70 ? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no
Control of weighted mean counts (N)			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} × 10)	lg $N_a =$	lg R = (lg N_o - lg N_a)	Status
1:30	30 min	0	0	< 140	< 2.15	> 5.53	PASS
1:100	30 min	1	0	< 140	< 2.15	> 5.53	PASS

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