



Abbott Analytical



Consulting Scientists to the Disinfectant Industry

Test Report

Product name: Safe4 Disinfectant Cleaner Concentrate

Batch or ref no:

Manufacturer or supplier: Safe Solutions (Safe4) Ltd
Wharton Green House, Bostock Road, Winsford, CW7 3BD

Sample ref: 17L/021 **Date received:** 9 November 2017

Date tested: 8 December 2017 **Certificate date:** 11 December 2017

Certificate no: 17L.021VSt.SSL **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: 1:50 v/v

Product diluent: Sterile hard water (300 mg/l CaCO₃)

Test organism(s): *Salmonella* Typhimurium (NCTC 74)

Contact time(s): 30 min ± 10 s

Test temperature: 10 °C ± 1 °C

Test conditions: High-level soiling

Interfering substance: 10 g/l bovine albumin +
10 g/l yeast extract

Method: Dilution-neutralisation

Neutralising solution: 100 g/l Polysorbate 80 +
30 g/l Lecithin + 30 g/l Tryptone Soya
Broth + 5 g/l Sodium thiosulphate +
1g/l L-histidine

Incubation temperature: 36 °C ± 1 °C

Conclusion

When tested at a concentration of 1:50 this sample of Safe4 Disinfectant Cleaner Concentrate meets the requirements of EN 1656:2009 for bactericidal activity in 30 minutes at 10 °C, under high-level soiling conditions, against the referenced strain of *Salmonella* Typhimurium.

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Results: *Salmonella* Typhimurium (NCTC 74)

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 | 47 | $\bar{x} =$ | Vc1 | 50 | $\bar{x} =$ | Vc1 | 51 | $\bar{x} =$ |
| Vc2 | 51 | 50.5 | Vc2 | 49 | 48 | Vc2 | 43 | 46.5 | Vc2 | 51 | 51 |
| 30 ≤ \bar{x} (N_{v_o}) ≤ 160 ? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no | | | \bar{x} (A) ≥ 0.5 x \bar{x} (N_{v_o})? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no | | | \bar{x} (B) ≥ 0.5 x \bar{x} (N_{v_o})? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no | | | \bar{x} (C) ≥ 0.5 x \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} (wm) = 3.90 x10 ⁸ ; lg N = 8.59 |
| 10 ⁻⁶ | >330 | >330 | $N_o = N/10$; lg $N_o = 7.59$ |
| 10 ⁻⁷ | 41 | 37 | 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} x10) | lg $N_a =$ | lg R = (lg N_o - lg N_a) | Status |
|--------------------|--------------|-----|-----|-----------------------------|------------|----------------------------------|--------|
| 1:50 | 30 min | 0 | 0 | <140 | <2.15 | >5.44 | PASS |

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