



# 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:** 27 November 2017              **Certificate date:** 29 November 2017

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**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:** 1:50 v/v

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

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

**Contact time(s):** 30 min ± 10s

**Test temperature:** 10°C ± 1°C

**Test conditions:** High-level soiling

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

**Method:** Dilution-neutralisation

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

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

## Conclusion

When tested at a concentration of 1:50 this sample of Safe4 Disinfectant Cleaner Concentrate meets the requirements of EN 1657:2016 for fungicidal activity in 30 minutes at 10°C, under high-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 ( $N_{v0}$ )			Experimental conditions control (A)			Neutralizer or filtration control (B)			Method validation (C)		
Vc1	61	$\bar{x} =$	Vc1	60	$\bar{x} =$	Vc1	63	$\bar{x} =$	Vc1	60	$\bar{x} =$
Vc2	63	62	Vc2	68	64	Vc2	64	63.5	Vc2	57	58.5
30 ≤ $\bar{x}$ ( $N_{v0}$ ) ≤ 160 ? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no			$\bar{x}$ (A) ≥ 0.5 x $\bar{x}$ ( $N_{v0}$ ) ? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no			$\bar{x}$ (B) ≥ 0.5 x $\bar{x}$ ( $N_{v0}$ ) ? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no			$\bar{x}$ (C) ≥ 0.5 x $\bar{x}$ ( $N_{v0}$ ) ? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no		

### Test suspension: (N and $N_0$ )

N	Vc1	Vc2	$\bar{x}$ wm = 3.20 x10 <sup>7</sup> ; lg N = 7.51
10 <sup>-5</sup>	>165	>165	$N_0 = N/10$ ; lg $N_0 = 6.51$
10 <sup>-6</sup>	31	33	6.17 ≤ lg $N_0$ ≤ 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 $N_0 = 6.51$ )	Status
1:50	30 min	14	17	155	2.19	4.32	PASS

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**Results: *Candida albicans* (DSM 1386)**

**Validation and controls:**

Validation suspension ( $N_{v0}$ )			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	41	$\bar{x} =$
Vc2	44	42.5	Vc2	40	40	Vc2	43	41	Vc2	42	41.5
30 ≤ $\bar{x}$ ( $N_{v0}$ ) ≤ 160 ? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no			$\bar{x}$ (A) ≥ 0.5 x $\bar{x}$ ( $N_{v0}$ )? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no			$\bar{x}$ (B) ≥ 0.5 x $\bar{x}$ ( $N_{v0}$ )? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no			$\bar{x}$ (C) ≥ 0.5 x $\bar{x}$ ( $N_{v0}$ )? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no		

**Test suspension:  
(N and  $N_0$ )**

N	Vc1	Vc2	$\bar{x}$ wm = 3.90 x10 <sup>7</sup> ; lg N = 7.59
10 <sup>-5</sup>	>330	>330	$N_0 = N/10$ ; lg $N_0 = 6.59$
10 <sup>-6</sup>	37	41	6.17 ≤ lg $N_0$ ≤ 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 $N_0 = 6.59$ )	Status
1:50	30 min	0	0	< 140	< 2.15	> 4.44	PASS

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