



# Abbott Analytical

Consulting Scientists to the Disinfectant Industry



## Certificate of Analysis

**Product name:** Serenity Alcohol Free Sanitizer

**Batch or ref no:**

**Manufacturer or supplier:** Serenity Group, Kemp House, London, EC1V 2NX

**Sample ref:** 15A/015                      **Date received:** 6 January 2015

**Date tested:** 30 January 2015              **Certificate date:** 2 February 2015

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**Analysis required:** EN 13704:2002, Chemical disinfectants - Quantitative suspension test for the evaluation of sporicidal activity of chemical disinfectants used in human medicine, veterinary field, and food, industrial, domestic and institutional areas - Test method and requirements (phase 2, step 1)

**Storage conditions:** Room temperature

**Appearance of product (solution):** Clear colourless liquid

**Active substance(s) and their concentration(s):** Not declared

### Notes:

The test results in this report relate only to the sample(s) tested.  
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**Experimental conditions:**

<b>Concentration(s) of product tested:</b>	Neat as received (test concentration 80%)
<b>Product diluent:</b>	N/A
<b>Test organism(s):</b>	<i>Clostridium difficile</i> (NCTC 11209)
<b>Contact time(s):</b>	15 minutes
<b>Test temperature:</b>	20°C ± 0.5°C
<b>Test conditions:</b>	Dirty
<b>Interfering substance:</b>	3.0g/l bovine albumin
<b>Neutralising solution:</b>	30g/l Polysorbate 80 + 3g/l Lecithin + 1g/l L-histidine + 1g/l L-cysteine
<b>Incubation temperature:</b>	37°C ± 1°C

**Remarks regarding the results:**

This is a ready-to-use product but the actual concentration of the product during testing was 80% due to the constraints of the test method. This reduces the effectiveness of the test product, despite which it passed against the test organism detailed above.

**Conclusion:**

At a test concentration of 80%, this sample of Serenity Alcohol Free Sanitizer passes the requirements of EN 13704:2002 for sporicidal activity in 15 minutes at 20°C under dirty conditions against *Clostridium difficile* (NCTC 11209).

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**Results: Clostridium difficile (NCTC 11209)**

Validation tests			
Spore suspension	Experimental conditions	Neutraliser toxicity	Dilution-neutralisation
Vc: 70 ; 75	Vc: 56 ; 60	Vc: 57 ; 64	Vc: 58 ; 62
Nv: 7.3 x10 <sup>2</sup>	Nv: 5.8 x10 <sup>1</sup>	Nv: 6.1 x10 <sup>1</sup>	Nv: 6.0 x10 <sup>1</sup>

Spore test suspension	Test procedure at
	Contact time 15 mins Test conc. 80%
10 <sup>-4</sup> : 188 ; 140	Vc: 0 ; 0
10 <sup>-5</sup> : 16 ; 11	Na: < 1.5 x10 <sup>2</sup>
N: 1.6 x10 <sup>6</sup>	R: > 1.1 x10 <sup>3</sup> PASS

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