

**Report:** CVC.19J037.IMr2

**Issued:** 14 October 2019

**Page:** 1 of 5

## Test Report:

## EN 1276:2019

Chemical disinfectants and antiseptics – Quantitative suspension test for the evaluation of bactericidal activity of chemical disinfectants and antiseptics used in food, industrial, domestic and institutional areas – Test method and requirements (phase 2, step 1)

### Identification of the test laboratory:

Abbott Analytical Ltd  
Unit 2, Hickmans Road, Birkenhead, CH41 1JH, United Kingdom

### Identification of the client:

Coventry Chemicals Ltd  
Woodhams Road, Coventry, CV3 4FX, United Kingdom

### Identification of the sample:

19J/037

Name of the product:	Sanitiser Concentrate
Batch number/reference and expiry date (if available):	AQBK1 P32/2
Date of delivery:	06 September 2019
Storage conditions:	Room temperature in darkness
Product diluent recommended by the manufacturer for use:	Not disclosed
Active substance(s) and their concentrations (s) (optional):	Not disclosed
Appearance of the product:	Dark green liquid

### Notes:

- 1) The test results in this report relate only to the sample(s) tested.
- 2) 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 Ltd.

**Report:** CVC.19J037.IMr2

**Issued:** 14 October 2019

**Page:** 2 of 5

**Test method and its validation:**

Method: Dilution-neutralisation  
Neutraliser: 30.0 g/l Polysorbate 80 + 5.0 g/l Lecithin + 1.0 g/l L-histidine +  
1.0 g/l L-cysteine (Neutraliser A)  
Neutraliser validation: Validated in accordance with EN 1276:2019 (5.5.2)

**Experimental conditions:**

Period of analysis: 09 October 2019 to 11 October 2019  
Product test concentration(s): 1:59 v/v (1 part product to 59 parts water)  
Diluent used for product test solution(s): Hard water  
Contact time(s): 5 min ± 10 s  
Test temperature(s): 20°C ± 1°C  
Interfering substance: 3.0 g/l bovine albumin (dirty conditions)  
Temperature of incubation: 36°C ± 1°C  
Identification of the bacterial strain(s) used: Methicillin-resistant *Staphylococcus aureus* (NCTC 12493)

**Deviations:** None

**Remarks:**

- 1) All test conditions are as requested by the client, irrespective of whether these are in accordance with EN 1276:2019 (5.4.2) or EN 1276:2019 (5.5.1.1).

**Report:** CVC.19J037.IMr2

**Issued:** 14 October 2019

**Page:** 3 of 5

**Requirements:**

The product shall demonstrate at least a 5 decimal log (lg) reduction against every test organism.

**Conclusion:**

According to EN 1276:2019, Sanitiser Concentrate possesses bactericidal activity when tested at a concentration of 1:59 (1 part product to 59 parts water) with a contact time of 5 minutes at 20°C under dirty conditions against the referenced strain of Methicillin-resistant *Staphylococcus aureus*.

**Report prepared by:**

Signed:



Name:

Tony Watson

Position:

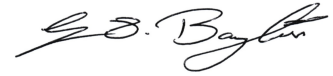
General Manager

Date:

14 October 2019

**Approved by:**

Signed:



Name:

Gareth Bayliss

Position:

Laboratory Manager

Date:

14 October 2019

**Report:** CVC.19J037.IMr2

**Issued:** 14 October 2019

**Page:** 4 of 5

**Results:** EN 1276:2019

RST 002 (Issue 4)

Test organism:	MRSA	(NCTC 12493)
Date of test:	09 October 2019	
Test temperature:	20°C ± 1°C	Incubation temperature: 36°C ± 1°C
Dilution-neutralisation method:	Pour plate	Number of plates: 1 / ml
Neutraliser:	A	Test conditions: Dirty conditions

**Validation and controls:**

Validation suspension ( $N_{V_0}$ )			Experimental conditions control (A)			Neutraliser or filtration control (B)			Method validation (C) Product conc.: 1:59		
Vc1	75	$\bar{x}$ =	Vc1	71	$\bar{x}$ =	Vc1	72	$\bar{x}$ =	Vc1	68	$\bar{x}$ =
Vc2	67	71	Vc2	69	70	Vc2	69	70.5	Vc2	74	71
30 ≤ $\bar{x}$ of $N_{V_0}$ ≤ 160 ?			$\bar{x}$ of A ≥ 0.5 × $\bar{x}$ of $N_{V_0}$ ?			$\bar{x}$ of B ≥ 0.5 × $\bar{x}$ of $N_{V_0}$ ?			$\bar{x}$ of C ≥ 0.5 × $\bar{x}$ of $N_{V_0}$ ?		
<input checked="" type="checkbox"/> yes <input type="checkbox"/> no			<input checked="" type="checkbox"/> yes <input type="checkbox"/> no			<input checked="" type="checkbox"/> yes <input type="checkbox"/> no			<input checked="" type="checkbox"/> yes <input type="checkbox"/> no		

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

$N$	Vc1	Vc2	$\bar{x}$ wm = $3.24 \times 10^8$ ;	$\lg N = 8.51$
$10^{-6}$	323	>330	$N_0 = N / 10$ ;	$\lg N_0 = 7.51$
$10^{-7}$	32	34	$7.17 \leq \lg N_0 \leq 7.70$ ?	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no

**Test:**

Conc. of the product	Contact time	Vc1	Vc2	$Na$ ( $\bar{x} \times 10$ )	$\lg Na$	$\lg R$ ( $\lg N_0 - \lg Na$ )
1:59	5 min	0	0	<140	<2.15	>5.36

**Explanations:**

$V_c$	count per ml (one plate or more)
$\bar{x}$	average of $V_{c1}$ and $V_{c2}$ (1 + 2 duplicate)
$\bar{x}_{wm}$	weighted mean of $\bar{x}$
$N$	number of cells per ml in the test suspension
$N_0$	number of cells in the test mixture at the beginning of the contact time ( $N_0 = N / 10$ )
$N_a$	number of survivors per ml in the test mixture at the end of the contact time (before neutralisation or filtration)
$R$	reduction ( $\lg R = \lg N_0 - \lg N_a$ )
$N_v$	number of cells per ml in the validation suspension
$N_{v_0}$	number of cells in the validation mixtures at the beginning of the contact time ( $N_{v_0} = N_v / 10$ )
$A$	number of survivors per ml in the experimental conditions control mixture
$B$	number of survivors per ml in the neutraliser or filtration control mixture
$C$	number of survivors per ml in the method validation mixture

All test results have an associated uncertainty of measurement, details of which are available on request.