



Abbott Analytical



Consulting Scientists to the Disinfectant Industry

Test Report

Product name: Crebisol

Batch or ref no:

Manufacturer or supplier: Crebisol Ltd
17 Sunningdale Drive, Newcastle, BT33 0QJ

Sample ref: 17G/001 **Date received:** 20 November 2017

Date tested: 1 December 2017 **Certificate date:** 4 December 2017

Certificate no: 17L.054MKn.CBS **Page:** 1 of 3

Analysis required: EN 13727:2012+A2:2015, Chemical disinfectants and antiseptics - Quantitative suspension test for the evaluation of bactericidal activity in the medical area - Test method and requirements (phase 2, step 1)

Storage conditions: Room temperature in darkness

Appearance of product (solution): Blue 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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Date: 4 December 2017

Page: 2 of 3

Experimental conditions

Concentration(s) of product tested: 1:20 & 1:50 v/v

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

Test organism(s): *Klebsiella pneumoniae* NDM-1
(NCTC 13443) #

Contact time(s): 5 min ± 10 s

Test temperature: 20 °C ± 1 °C

Test conditions: Dirty

Interfering substance: 3.0 g/l bovine albumin +
3.0 ml/l sheep erythrocytes

Method: Dilution-neutralisation

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

Incubation temperature: 36 °C ± 1 °C

A New Delhi Metallo-β-lactamase (NDM-1) producing, carbapenem-resistant Enterobacteriaceae (CRE).

Conclusion

When tested at concentrations of 1:20 and 1:50 this sample of Crebisol meets the requirements of EN 13727:2012+A2:2015 for bactericidal activity in 5 minutes at 20 °C, under dirty conditions, against the referenced strain of *Klebsiella pneumoniae* NDM-1.

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Page: 3 of 3

Results: *Klebsiella pneumoniae* NDM-1 (NCTC 13443) #

Validation and controls:

Validation suspension (N_{v0})			Experimental conditions control (A)			Neutralizer or filtration control (B)			Method validation (C)		
Vc1	143	$\bar{x} =$	Vc1	141	$\bar{x} =$	Vc1	140	$\bar{x} =$	Vc1	137	$\bar{x} =$
Vc2	148	145.5	Vc2	140	140.5	Vc2	143	141.5	Vc2	139	138
$30 \leq \bar{x} (N_{v0}) \leq 160$? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no			$\bar{x} (A) \geq 0.5 \times \bar{x} (N_{v0})$? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no			$\bar{x} (B) \geq 0.5 \times \bar{x} (N_{v0}$ or $N_{VB}/1000$) ? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no			$\bar{x} (C) \geq 0.5 \times \bar{x} (N_{v0})$? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no		
Validation suspension (N_{VB})			Vc1	141	$\bar{x} =$	$30 \leq \bar{x} (N_{VB}/1000) \leq 160$? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no					
			Vc2	145	143						

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

N	Vc1	Vc2	$\bar{x} (wm) = 2.91 \times 10^8$; $\lg N = 8.46$
10^{-6}	291	293	$N_0 = N/10$; $\lg N_0 = 7.46$
10^{-7}	26	30	$7.17 \leq \lg N_0 \leq 7.70$? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no
Control of weighted mean counts (N)			Quotient = 10.43
			Between 5 and 15 ? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no

Test:

Product test conc.	Contact time	Diln. step	Vc1	Vc2	$N_a = \bar{x} (wm) \times 10$ $\lg N_a =$	$\lg R =$ ($\lg N_0 - \lg N_a$)	Status
1:20	5 min	10^0	0	0	< 2.15	> 5.31	PASS
		10^{-1}	0	0			
1:50	5 min	10^0	5	2	< 2.15	> 5.31	PASS
		10^{-1}	0	0			

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