



Abbott Analytical



Consulting Scientists to the Disinfectant Industry

Certificate of Analysis

Sample(s) : One sample of Trionic D Wipes
Expiry Date 2015 - 04
Lot 11112

Received from: Ebiox Ltd. 822 Fountain Court, Birchwood Boulevard,
Birchwood, Warrington, WA3 7QZ

Date received: 11 January 2013 **Date tested:** 14 January 2013

Certificate no: 13A.032Cd.EBI **Certificate date:** 25 January 2013

Sample ref: 13A/032 **Page:** 1 of 3

Analysis required: EN 13704, 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)

Product stored at: Room temperature

Active substance: Not declared

Test conditions: Dirty

Interfering substance: 3.0g/l bovine albumin

Product test concentration: Neat liquor squeezed from wipes

Product diluent used during test: N/A

Contact time: 1 minute & 3 minutes

Test temperature: 20°C ± 0.5°C

Neutralising solution: 30g/l Polysorbate 80, 3g/l Lecithin, 1g/l Histidine, 1g/l Cysteine

Incubation temperature: 30°C ± 1°C

Identification of bacterial strain(s) used: *Clostridium difficile* NCTC 11209

D C Watson



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Test results: 1 minute

Test Organism	<i>Clostridium difficile</i>	
Validation Suspension (N_v)	Vc1 316	Vc2 272
	$\bar{x} = 294$	
Experimental Control (A)	Vc1 296	Vc2 285
	$\bar{x} = 291 \geq 0.5N_{v_0}$	
Neutraliser Control (B)	Vc1 274	Vc2 310
	$\bar{x} = 292 \geq 0.5N_{v_0}$	
Method Validation (C)	Vc1 282	Vc2 298
	$\bar{x} = 290 \geq 0.5N_{v_0}$	
Test Suspension	10^{-4} Vc1 322	Vc2 294
	10^{-5} Vc1 35	Vc2 30
(N = \bar{w})	lg N = 6.49	
(N₀ = 0.1N)	lg N ₀ = 5.49	
Results (Na = 10\bar{x}) (R)	Vc1 33	Vc2 25
	lg Na = 2.46 lg R = 3.03	
Pass: lg R \geq 3	PASS	

Vc = plate count per ml
 \bar{x} = average of Vc1 and Vc2
 \bar{w} = weighted mean of \bar{x}
R = reduction (lg R = lg N₀ - lg Na)

Requirements & Conclusion:

This batch of Trionic D Wipes, when used neat (liquor squeezed from wipe) , passes the requirements of EN 13704 for bactericidal activity in 1 minute at 20°C under dirty conditions against all of the reference organisms detailed.

D C Watson

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Test results: 3 minutes

Test Organism	<i>Clostridium difficile</i>	
Validation Suspension (N_{v0})	Vc1 316	Vc2 272
	$\bar{x} = 294$	
Experimental Control (A)	Vc1 296	Vc2 285
	$\bar{x} = 291 \geq 0.5N_{v0}$	
Neutraliser Control (B)	Vc1 274	Vc2 310
	$\bar{x} = 292 \geq 0.5N_{v0}$	
Method Validation (C)	Vc1 282	Vc2 298
	$\bar{x} = 290 \geq 0.5N_{v0}$	
Test Suspension	10 ⁻⁴ Vc1 322	Vc2 294
	10 ⁻⁵ Vc1 35	Vc2 30
(N = \bar{w}) (N₀ = 0.1N)	lg N = 6.49	
	lg N ₀ = 5.49	
Results (Na = 10\bar{x}) (R)	Vc1 19	Vc2 14
	lg Na = 2.22 lg R = 3.27	
Pass: lg R \geq 3	PASS	

Vc = plate count per ml
 \bar{x} = average of Vc1 and Vc2
 \bar{w} = weighted mean of \bar{x}
R = reduction (lg R = lg N₀ - lg Na)

Requirements & Conclusion:

This batch of Trionic D wipes, when used neat as received (liquor squeezed from wipes) , **passes the requirements of EN 13704 for bactericidal activity** in 3 minutes at 20°C under dirty conditions against all of the reference organisms detailed.

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