



Abbott Analytical



Consulting Scientists to the Disinfectant Industry

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Test results:

Test Organism	<i>Pseudomonas aeruginosa</i>		<i>Escherichia coli</i>		<i>Staphylococcus aureus</i>		<i>Enterococcus hirae</i>	
Validation Suspension (N_v)	Vc1 130	Vc2 156	Vc1 118	Vc2 142	Vc1 136	Vc2 104	Vc1 152	Vc2 170
	x̄ = 143		x̄ = 130		x̄ = 120		x̄ = 161	
Experimental Control (A)	Vc1 114	Vc2 128	Vc1 100	Vc2 134	Vc1 126	Vc2 114	Vc1 134	Vc2 172
	x̄ = 121 ≥ 0.5N _v		x̄ = 117 ≥ 0.5N _v		x̄ = 120 ≥ 0.5N _v		x̄ = 153 ≥ 0.5N _v	
Neutraliser Control (B)	Vc1 136	Vc2 102	Vc1 116	Vc2 92	Vc1 108	Vc2 122	Vc1 130	Vc2 125
	x̄ = 119 ≥ 0.5N _v		x̄ = 104 ≥ 0.5N _v		x̄ = 115 ≥ 0.5N _v		x̄ = 128 ≥ 0.5N _v	
Method Validation (C)	Vc1 122	Vc2 145	Vc1 124	Vc2 130	Vc1 118	Vc2 104	Vc1 150	Vc2 128
	x̄ = 134 ≥ 0.5N _v		x̄ = 127 ≥ 0.5N _v		x̄ = 111 ≥ 0.5N _v		x̄ = 139 ≥ 0.5N _v	
Test Suspension	10 ⁻⁶ Vc1 264	Vc2 284	Vc1 233	Vc2 274	Vc1 256	Vc2 232	Vc1 288	Vc2 304
	10 ⁻⁷ Vc1 28	Vc2 24	Vc1 25	Vc2 31	Vc1 26	Vc2 21	Vc1 28	Vc2 34
(N = w̄)	lg N = 8.44		lg N = 8.41		lg N = 8.39		lg N = 8.47	
(N_o = 0.1N)	lg N _o = 7.44		lg N _o = 7.41		lg N _o = 7.39		lg N _o = 7.47	
Results	Vc1 0	Vc2 0	Vc1 0	Vc2 0	Vc1 0	Vc2 0	Vc1 0	Vc2 0
(Na = 10x̄)	lg Na < 2.15		lg Na < 2.15		lg Na < 2.15		lg Na < 2.15	
(R)	lg R > 5.29		lg R > 5.26		lg R > 5.24		lg R > 5.32	
Pass: lg R ≥ 5	PASS		PASS		PASS		PASS	

Vc = plate count per ml

w̄ = weighted mean of x̄

x̄ = average of Vc1 and Vc2

R = reduction (lg R = lg N_o - lg Na)

Requirements & Conclusion:

This batch of Powersan 7, when diluted to 20% v/v, passes the requirements of EN 1276 for bactericidal activity in 30 seconds at 20°C under dirty conditions against all of the reference organisms detailed.

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