



**EFFICACY DATA for ES64H  
Neutral Disinfectant Cleaner  
(EPA Reg. No. 1839-169)**

**DISINFECTION DATA:**

**Test Method:** AOAC Use Dilution

**Test Conditions:** 10 minute contact time, 5% organic soil load, stainless steel carrier substrates, 400 ppm hard water, 20°C exposure temperature, 2 oz/gal dilution [with the exception of *Xanthomonas axonopodis* pathovar *citri*, dilution ratio is indicated by organism]

**Results:**

Test Organism	Sample	No. of Carriers	
		Exposed	Positive
<i>Staphylococcus aureus</i> (ATCC 6538)	A	60	1
	B	60	1
	C	60	1
<i>Salmonella (choleraesuis) enteric</i> (ATCC 10708)	A	60	0
	B	60	0
	C	60	1
<i>Pseudomonas aeruginosa</i> PRD-10 (ATCC 15442)	A	60	0
	B	60	0
	C	60	1
Ampicillin resistant <i>Acinetobacter baumannii</i> (Fairfax Hospital CI 02001)	A	10	0
	B	10	0
Bactrim resistant <i>Acinetobacter baumannii</i> (Fairfax Hospital CI 02001)	A	10	0
	B	10	0
<i>Bordetella bronchiseptica</i> (ATCC 31437)	A	10	0
	B	10	0
Cefazolin resistant <i>Acinetobacter baumannii</i> (Fairfax Hospital CI 02001)	A	10	0
	B	10	0
Ceftazidime resistant <i>Acinetobacter baumannii</i> (Fairfax Hospital CI 02001)	A	10	0
	B	10	0
Ceftriaxone resistant <i>Acinetobacter baumannii</i> (Fairfax Hospital CI 02001)	A	10	0
	B	10	0
Ciprofloxacin resistant <i>Acinetobacter baumannii</i> (Fairfax Hospital CI 02001)	A	10	0
	B	10	0
Community Associated Methicillin Resistant <i>Staphylococcus aureus</i> (CA-MRSA) (NRS 123, Genotype USA400)	A	10	0
	B	10	0
	C	10	0
Community Associated Methicillin Resistant <i>Staphylococcus aureus</i> (CA-MRSA) (NRS 384, Genotype USA300)	A	10	0
	B	10	0
	C	10	0
<i>Corynebacterium ammoniagenes</i> (ATCC 6871)	A	10	0
	B	10	0
<i>Enterobacter aerogenes</i> (ATCC 13048)	A	10	0
	B	10	0
<i>Enterobacter cloacae</i> (ATCC 23355)	A	10	0
	B	10	0
<i>Enterobacter cloacae</i> (clinical isolate)	A	10	0
	B	10	0

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**BACTERICIDAL STABILITY DATA OF USE-SOLUTION:**

**Test Method:** Use Dilution

**Test Conditions:** 2 oz/gal dilution, 5% organic soil load, 10 minute contact time,  
 400 ppm hard water, 20°C exposure temperature, stainless steel carrier substrates

**Storage Conditions:** sealed containers at room temperature

**Results:**

<u>Test Time</u>	<u>Sample</u>	<u>Test Organism</u>	<u>No. of Carriers</u>	
			<u>Exposed</u>	<u>Positive</u>
Zero Time	A	<i>Staphylococcus aureus</i> (ATCC 6538)	10	0
		<i>Salmonella (choleraesuis) enterica</i> (ATCC 10708)	10	0
		<i>Pseudomonas aeruginosa</i> (ATCC 15442)	10	0
	B	<i>Staphylococcus aureus</i> (ATCC 6538)	10	0
		<i>Salmonella (choleraesuis) enterica</i> (ATCC 10708)	10	0
		<i>Pseudomonas aeruginosa</i> (ATCC 15442)	10	0
Week 1	A	<i>Staphylococcus aureus</i> (ATCC 6538)	10	0
		<i>Salmonella (choleraesuis) enterica</i> (ATCC 10708)	10	0
		<i>Pseudomonas aeruginosa</i> (ATCC 15442)	10	0
	B	<i>Staphylococcus aureus</i> (ATCC 6538)	10	0
		<i>Salmonella (choleraesuis) enterica</i> (ATCC 10708)	10	0
		<i>Pseudomonas aeruginosa</i> (ATCC 15442)	10	0
Week 2	A	<i>Staphylococcus aureus</i> (ATCC 6538)	10	0
		<i>Salmonella (choleraesuis) enterica</i> (ATCC 10708)	10	0
		<i>Pseudomonas aeruginosa</i> (ATCC 15442)	10	0
	B	<i>Staphylococcus aureus</i> (ATCC 6538)	10	0
		<i>Salmonella (choleraesuis) enterica</i> (ATCC 10708)	10	0
		<i>Pseudomonas aeruginosa</i> (ATCC 15442)	10	0
Week 3	A	<i>Staphylococcus aureus</i> (ATCC 6538)	10	0
		<i>Salmonella (choleraesuis) enterica</i> (ATCC 10708)	10	0
		<i>Pseudomonas aeruginosa</i> (ATCC 15442)	10	0
	B	<i>Staphylococcus aureus</i> (ATCC 6538)	10	0
		<i>Salmonella (choleraesuis) enterica</i> (ATCC 10708)	10	0
		<i>Pseudomonas aeruginosa</i> (ATCC 15442)	10	0
Week 4	A	<i>Staphylococcus aureus</i> (ATCC 6538)	10	0
		<i>Salmonella (choleraesuis) enterica</i> (ATCC 10708)	10	0
		<i>Pseudomonas aeruginosa</i> (ATCC 15442)	10	0
	B	<i>Staphylococcus aureus</i> (ATCC 6538)	10	0
		<i>Salmonella (choleraesuis) enterica</i> (ATCC 10708)	10	0
		<i>Pseudomonas aeruginosa</i> (ATCC 15442)	10	0

**Conclusion:** The results of this investigation show that a 2 oz/gal use dilution of ES64H Neutral Disinfectant Cleaner will demonstrate disinfectant efficacy against *Staphylococcus aureus*, *Salmonella (choleraesuis) enterica*, and *Pseudomonas aeruginosa* for up to 4 weeks in accordance with criteria established by the U.S. Environmental Protection Agency for registration and labeling of a disinfectant product as a bactericide.