

ID-D201008025-1

Test Method: Evaluation of Bactericidal activity BS EN 1276:2019

Procedure: Dilution-neutralization Method

Test Product: STERLOC 100 ppm (Transparent liquid)

Apparatus: Autoclave, BOD Incubators,

Interfering substances: Bovine albumin solution 0.3gm/l

Neutralizer: DE Broth

Reference culture: Staphylococcus aureus ATCC-6538; Escherichia coli ATCC-10536;
Pseudomonas aeruginosa ATCC 15442; Enterococcus hirae ATCC 10541

Culture Medium: Maximum recovery diluent, Tryptone soya agar

Test Temperature: 20 °C±1

Incubation Temperature: 36 ± 1 °C to 37 ± 1 °C

Incubation Time: 20-24 hours

Test Procedure: Dilution - neutralization

Interfering substance along with Test bacteria are kept in contact with solution for the contact time 5 minute at the time end of the contact time, aliquots are withdrawn neutralized and surviving viable organisms are estimated.

Reduction in viability (R) is calculated from the number of viable cfu/ml in test suspension before (N) and after exposure (Na) validation of dilution - neutralization was carried out as per standard protocol.

Test-1

Validation (Nv) and Controls

Test Organisms	Validation suspension (N _v)	Experimental Condition control (A)	Neutralization (B)	Method validation (C)
Staphylococcus aureus ATCC 6538	570	59	56	60
Escherichia coli ATCC 10536	630	61	65	66
Pseudomonas aeruginosa ATCC 15442	690	64	67	71
Enterococcus hirae ATCC 10541	760	73	69	70

Rishi Tiwari

Analyst Signature



Digitally signed
by YOGESH
MALIK
Date: 2020.10.24
15:59:49 +05:30

Authorised Signatory

TEST REPORT

Test Suspension and Test (N & No)

Test Organisms	Test Count Initial (N) cfu/ml	IgN	Lg No (No=N/10)
Staphylococcus aureus ATCC 6538	4.0x10 ⁸	8.60	7.60
Escherichia coli ATCC 10536	4.5x10 ⁸	8.65	7.65
Pseudomonas aeruginosa ATCC 15442	3.9x10 ⁸	8.59	7.59
Enterococcus hirae ATCC 10541	4.8x10 ⁸	8.68	7.68

Test Organisms	Contact Time	Contact Temp °C	Product Cone. %	Vc1	Vc2	Na=X x10	Lg Na	Lg R	% Reduction
Staphylococcus aureus ATCC 6538	5 Minute	20±1°C	1:1.25	<14	<14	<140	<2.15	>5.45	99.999 %
Escherichia coli ATCC 10536	5 Minute	20±1°C	1:1.25	<14	<14	<140	<2.15	>5.50	99.999 %
Pseudomonas aeruginosa ATCC 15442	5 Minute	20±1°C	1:1.25	<14	<14	<140	<2.15	>5.44	99.999 %
Enterococcus hirae ATCC 10541	5 Minute	20±1°C	1:1.25	<14	<14	<140	<2.15	>5.53	99.999 %

Test Results

The Standard Bactericidal effect (germ kill efficacy) of Evaluation R≥5.0

COMMENT: When tested as specified, sample labeled Bactericidal effect (germ kill efficacy) **Pass** the Quantitative Assessment of Activity in 5 minute for Staphylococcus aureus & Enterococcus hirae, Escherichia coli & Pseudomonas aeruginosa by BS EN 1276:2019 Test Method.

Rishi Tiwari

Analyst Signature



Authorised Signatory