



Evans Vanodine International plc
GLOBAL HYGIENE SOLUTIONS

EST-EEM



MICROBIOLOGICAL PROFILE

EST-EEM MICROBIOLOGICAL PROFILE

INTRODUCTION

EST-EEM is an unperfumed liquid disinfectant and multi-purpose cleaner.

EST-EEM is available as a concentrate product and in a ready-to-use (RTU) solution. The results reported in this profile have been carried out on dilutions of the concentrated product.

EST-EEM has been tested using European Standard methods to meet specific classification/regulatory demands.

European Standard test method EN 1276 was performed in the UKAS accredited Microbiology Laboratory (Testing No. 1108) of Evans Vanodine International Plc. Tests with additional organisms *Campylobacter jejunii* and *Listeria monocytogenes* were performed by an independent UKAS accredited laboratory.

EN 1276 uses four reference bacteria, *Enterococcus hirae*, *Escherichia coli* (*E.coli*), *Pseudomonas aeruginosa* and *Staphylococcus aureus* as representatives of the main bacterial types. Effective dilution rates are presented in following tables.

PLEASE REFER TO PRODUCT LABEL FOR HOW TO USE AND FOR ALL RECOMMENDED DILUTION RATES.

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Enterococcus hirae
Escherichia coli
Escherichia coli "0157"
Listeria monocytogenes
Methicillin resistant Staphylococcus aureus
Pseudomonas aeruginosa
Salmonella pullorum
Salmonella typhimurium
Shigella sonnei
Staphylococcus aureus

A glossary of microbiological and chemical terms is available on request

EST-EEM MICROBIOLOGICAL PROFILE

Activity against bacteria in suspension using

EN 1276*

BACTERIA	DISEASE / INFECTION	Bactericidal dilutions under simulated "dirty conditions"***	
		CONTACT TIMES	
		30 seconds	5 minutes
<i>Enterococcus hirae</i>	Urinary tract infections	1:200	1:400
<i>Escherichia coli</i>	Food poisoning	1:25	1:50
<i>Pseudomonas aeruginosa</i>	Opportunistic pathogen, wound, burn infections	1:25	1:25
<i>Staphylococcus aureus</i>	Skin, bone and wound infections	1:50	1:200
<i>Campylobacter jejunii</i>	Food poisoning		1:200
<i>Escherichia coli</i> "0157"	Food poisoning		1:50
<i>Listeria monocytogenes</i>	Food poisoning		1:200
<i>Methicillin resistant Staphylococcus aureus</i>	Skin, bone and wound infections		1:100
<i>Salmonella pullorum</i>	Food poisoning		1:50
<i>Salmonella typhimurium</i>	Food poisoning		1:25
<i>Shigella sonnei</i>	Dysentery		1:50

*Test reference 1

**As defined in EN 1276:

Dirty conditions: representative of surfaces which are known to or may contain organic and / or inorganic materials.

EST-EEM MICROBIOLOGICAL PROFILE

Activity against bacteria in suspension using EN 1276*

BACTERIA	DISEASE / INFECTION	Bactericidal dilutions under simulated "clean conditions"***
		CONTACT TIME
		5 minutes
<i>Enterococcus hirae</i>	Urinary tract infections	1:200
<i>Escherichia coli</i>	Food poisoning	1:100
<i>Pseudomonas aeruginosa</i>	Opportunistic pathogen, wound, burn infections	1:25
<i>Staphylococcus aureus</i>	Skin, bone and wound infections	1:200

*Test reference 1

** As defined in EN 1276

Clean conditions: representative of surfaces which have received a satisfactory cleaning programme and/or are known to contain minimal levels of organic and/or inorganic materials)

TEST METHOD REFERENCE

Laboratory tests for bactericidal activity, have been performed by the UKAS accredited Microbiology Laboratory (Testing Number 1108) of Evans Vanodine International Plc. Tests with additional organisms performed at an independent laboratory.

1 EUROPEAN STANDARD: EN 1276

Chemical disinfectants and antiseptics - Quantitative suspension test for the evaluation of bactericidal activity of chemical disinfectants and antiseptics used in food, industrial, domestic, and institutional areas

Designed to test bactericidal products specifically for use in the Food and Catering Industry. It is carried out under "dirty" (representative of surfaces which are known to or may contain organic and/or inorganic materials) and "clean" (representative of surfaces which have received a satisfactory cleaning programme and/or are known to contain minimal levels of organic and/or inorganic materials) conditions.

Additional contact times were used as well as the obligatory test conditions.

Test Parameters: 5 minute contact time and 30 seconds, 20°C, hard water, dirty and clean conditions.

Bactericidal Criteria: ≥ 5 log reduction \equiv 99.999% reduction.