



Evans Vanodine International plc
GLOBAL HYGIENE SOLUTIONS

TRIGON PLUS



MICROBIOLOGICAL PROFILE

TRIGON PLUS MICROBIOLOGICAL PROFILE

<u>CONTENTS</u>		<u>PAGE</u>
	INTRODUCTION	3
1	<u>PRACTICAL TEST:- EN 1499</u> The following bacteria tested <i>Escherichia coli</i> K12	4
2	<u>BACTERICIDAL ACTIVITY :- EN 1276, EN 13727</u> The following bacteria tested <i>Enterococcus hirae</i> <i>Escherichia coli</i> <i>Pseudomonas aeruginosa</i> <i>Staphylococcus aureus</i>	5-6
 <u>APPENDICES</u>		
APPENDIX I	TEST METHOD REFERENCE	7
APPENDIX II	GLOSSARY OF MICROBIOLOGICAL AND CHEMICAL TERMS	8-9

TRIGON PLUS MICROBIOLOGICAL PROFILE

INTRODUCTION

TRIGON PLUS is an unperfumed hand wash that has been proven to kill a range of bacteria.

TRIGON PLUS will remove visible soiling, help to prevent cross contamination and is ideal for use wherever food is prepared or served.

TRIGON PLUS contains extra moisturisers to leave the hands soft and smooth and is suitable when frequent hand washing is necessary.

TRIGON PLUS is supplied in a sealed 1 litre cartridge for use in the EVANS EVOLVE SOAP DISPENSER, a stand-alone 500ml bottle complete with pump dispenser and a 5 litre bottle for bulk refill.

TRIGON PLUS has been tested with EN methods and meets the specifications of EN 1499, 1276 and 13727.

EN 1276 and EN 13727 tests were carried out in the UKAS accredited Microbiology Laboratory of Evans Vanodine International PLC. EN 1499 was performed at an independent laboratory.

TRIGON PLUS MICROBIOLOGICAL PROFILE

1 EN 1499 Chemical disinfectants and antiseptics - Hygienic Handwash



EN1499				
BACTERIA	DISEASE / INFECTION	HANDWASH PROCEDURE	SPECIFICATION	APPENDIX I TEST REFERENCE
<i>Escherichia coli</i> K12	Food poisoning	Wet hands, apply 2 pumps* from dispenser onto wetted hands and spread over hands and forearms for 1 minute before rinsing and drying	TRIGON PLUS meets the requirements of EN 1499 and is therefore deemed suitable to be used as a medical hygienic handwash	1

*~ 1.5mls per pump

EN 1499 specifies a test method simulating practical conditions for establishing whether a product for hygienic hand wash reduces the release of transient microbial flora on hands when used to wash artificially contaminated hands of volunteers.

TRIGON PLUS MICROBIOLOGICAL PROFILE

2 Activity against bacteria in suspension under simulated “dirty conditions”*



EN1276				
BACTERIA	DISEASE / INFECTION	BACTERICIDAL PASS DILUTION/ CONCENTRATION AT 20 °C 5 minute contact time		APPENDIX I TEST REFERENCE
<i>Enterococcus hirae</i>	Urinary tract infections	1:50	2%	2
<i>Escherichia coli</i>	Food poisoning	1:50	2%	
<i>Pseudomonas aeruginosa</i>	Opportunistic pathogen, wound, burn infections	1:50	2%	
<i>Staphylococcus aureus</i>	Skin, bone and wound infections	UNDILUTED	UNDILUTED	

* As defined in EN 1276 :

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

TRIGON PLUS MICROBIOLOGICAL PROFILE

2 Activity against bacteria in suspension under simulated “dirty conditions”



EN13727				
BACTERIA	DISEASE / INFECTION	BACTERICIDAL DILUTION/ CONCENTRATION		APPENDIX I TEST REFERENCE
		AT 20°C		
		1 minute contact time		
<i>Enterococcus hirae</i>	Urinary tract infections	1:50	2%	3
<i>Escherichia coli</i> K12	Food poisoning	1:50	2%	
<i>Pseudomonas aeruginosa</i>	Opportunistic pathogen, wound, burn infections	1:2	50%	
<i>Staphylococcus aureus</i>	Skin, bone and wound infections	1:200	0.5%	

TRIGON PLUS is deemed to have passed EN 13727 as it demonstrated a 3 log reduction when tested in accordance with the requirements for hygienic handwash products.

TRIGON PLUS MICROBIOLOGICAL PROFILE

APPENDIX I

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. Except EN 1499 by an independent laboratory

1 EUROPEAN STANDARD: EN 1499:

Chemical disinfectants and antiseptics - Hygienic Hand wash.

Designed to assess hand wash products by comparison to a reference hand wash preparation.

Test Parameters: 1 minute contact time

Criteria: When tested in accordance with the standard the mean reduction of the release of test organisms achieved by the product shall be statistically significantly larger than that achieved by the reference hand wash.

2 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 was carried out under "dirty" (representative of surfaces which are known to or may contain organic and/or inorganic materials) conditions.

Obligatory Test Parameters: 5 minute contact time, 20°C, hard water, dirty conditions.

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

3 EUROPEAN STANDARD: EN 13727:

Chemical disinfectants and antiseptics - Quantitative suspension test for the evaluation of bactericidal activity in the medical area.

Designed to test bactericidal products used in hospitals, health centres, dental practices, school/nursery clinics and nursing homes where disinfection or antiseptics is medically indicated.

Hygienic hand wash requirements: 1 minute contact time, 20°C, hard water, dirty conditions.

Bactericidal Criteria: ≥ 3 log reduction \equiv 99.9% reduction.