



Evans Vanodine International plc

G L O B A L H Y G I E N E S O L U T I O N S

BLEACH



MICROBIOLOGICAL PROFILE

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INTRODUCTION

BLEACH is a concentrated, hypochlorite solution and can be used in washrooms, toilets and kitchens.

BLEACH is suitable for wiping down washable hard surfaces, sanitising crockery, removing tannin stains and can be used for soaking cloths and mops.

European Standard test methods EN 1276 and EN 1650 were performed in the UKAS accredited Microbiology Laboratory (Testing No. 1108) of Evans Vanodine International Plc.

EN 1276 uses four reference bacteria, *Enterococcus hirae*, *Escherichia coli* (*E.coli*), *Pseudomonas aeruginosa* and *Staphylococcus aureus* as representatives of the main bacterial types. *Pseudomonas aeruginosa* is considered to be one of the most resistant bacteria to disinfectants and therefore the effective dilutions against this bacterium are normally used to determine recommended in-use dilutions.

EN 1650 uses two reference fungi, *Aspergillus brasiliensis* and *Candida albicans*. BLEACH is effective against both these fungi and can therefore be considered fungicidal.

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

<u>CONTENTS</u>	<u>PAGE</u>
<u>BACTERICIDAL ACTIVITY IN SUSPENSION</u>	3
<i>Enterococcus hirae</i>	
<i>Escherichia coli</i>	
<i>Pseudomonas aeruginosa</i>	
<i>Staphylococcus aureus</i>	
<u>FUNGICIDAL ACTIVITY IN SUSPENSION</u>	4
<i>Aspergillus brasiliensis</i>	
<i>Candida albicans</i>	

A glossary of microbiological and chemical terms is available on request

BLEACH MICROBIOLOGICAL PROFILE

Activity against bacteria in suspension using

EN 1276

BACTERIA	DISEASE / INFECTION	Bactericidal dilutions under simulated “clean and dirty conditions”*	
		CONTACT TIME	
		5 MINUTES	
		Clean	Dirty
<i>Enterococcus hirae</i>	Urinary tract infections	1:400	1:50
<i>Escherichia coli</i>	Food poisoning	1:400	1:75
<i>Pseudomonas aeruginosa</i>	Opportunistic pathogen, wound, burn infections	1:400	1:75
<i>Staphylococcus aureus</i>	Skin, bone and wound infections	1:400	1:100

* As defined in EN 1276 :

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.

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.

Test Parameters: 5 minute, 20°C, hard water, dirty and clean conditions.
Bactericidal Criteria: ≥ 5 log reduction \equiv 99.999% reduction.

BLEACH MICROBIOLOGICAL PROFILE

Activity against fungi in suspension using

EN 1650

BACTERIA	DISEASE / INFECTION	Bactericidal dilutions under simulated "dirty conditions"*
		CONTACT TIME
		15 minutes
<i>Aspergillus niger</i>	Aspergillosis	1:25
<i>Candida albicansi</i>	Thrush	1:25

* As defined in EN 1650:

TEST METHOD REFERENCE

EUROPEAN STANDARD: EN 1650

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

Designed to test fungicidal 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.

Test parameters: 15 minute contact time, 20°C, hard water, high level soiling.
Yeasticidal criteria: ≥ 4 log reduction \equiv 99.99% reduction.