REPORT ON THE BACTERICIDAL ACTIVITY OF MILTON 2% WHEN TESTED UNDER DEFINED CONDITIONS

TEST LABORATORY

Severn Trent Laboratories

Contact name:

Michelle Shaw/Amanda Davies

Contact address:

STL

Howard Court Manor Park Runcorn WA7 1SJ

Telephone:

01928 594037

Fax:

01928 579371

E-mail:

Michelle.shaw@stl-analytical.co.uk Amanda.davies@stl-analytical.co.uk

INTRODUCTION

The European Standard describes a suspension test method for establishing whether a chemical disinfectant or antiseptic has or does not have a bactericidal activity.

The laboratory test closely simulates practical conditions of application. Chosen conditions (contact time, temperature, organisms in suspension) reflect parameters which are found in practical situations including conditions, which may influence the action of antiseptics or disinfectants.

Using this European Standard, it is not possible to determine the bactericidal activity of an undiluted product as adding the inoculum and interfering substance always produces some dilution. Products can only be tested at a concentration of 80% or less.

TEST METHOD AND ITS VALIDATION

Method:

RPM 01 (STL accredited method based upon

BS EN 1276)

Test procedure:

Dilution-Neutralisation

Neutraliser:

Lecithin 3.0g/l, polysorbate 80 30g/l, Sodium Thiosulphate 5.0g/l, L-Histidine 1.0g/l, Tryptone 1.0g/l, Sodium Chloride 8.5g/l.

EXPERIMENTAL CONDITIONS

Period of Analysis:

Product Diluent used during test:

Product test concentrations:

Contact Times Used:

Interfering Substance:

Temperature of Incubation:

21/11/02 - 25/11/02 Sterile Hard Water

0.65% v/v

 $t = 1 \min \pm 10s$; 10 min $\pm 10s$ and 30 min \pm

10s.

20°C ± 1°C

Milk -

 $37^{\circ}C \pm 1^{\circ}C$

2 days.

Time in incubator:

Test Temperature:

Identification of bacterial strains used:

Pseudomonas aeruginosa ATCC 15442

Escherichia coli ATCC 10536 Staphylococcus aureus ATCC 6538 Enterococcus hirae ATCC 10541





STL Runcorn Howard Court Manor Park Runcorn WA7 1SJ United Kingdom

Tel +44 (0)1928 594 000 Fax +44 (0)1928 579 970 sales/@sthanalytical.co.uk www.sthanalytical.co.uk

TEST RESULTS

Sample &	Efficacy (log reduction) Me Value								
Contact Times	E. coli		Enterococcus hirae		Staphylococcus aureus		Pseudomonas aeruginosa		
Milton 2% (269250)			1		1				
T = 1 minute	5.88	Pass	6.22	Pass	6.74	Pass	5.88	Pass	
T = 10 minutes	>6.95	Pass	>7.00	Pass	>7.94	Pass	>6.78	Pass	
T = 30 minutes	>6.95	Pass	>7.00	Pass	>7.94	Pass	>6.78	Pass	

ME > 5.00 = Pass

CONCLUSION

According to EN 1276:1997 the milton 2%, when diluted to 0.65% (v/v) in hard water, possesses bactericidal activity after 1 minute contact time, with milk as the interfering substance, for reference strains Escherichia coli, Enterococcus hirae, Staphylococcus aureus and Psuedomonas aeruginosa.

References

1.	European Standard: BS EN 1276:1997, 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-
	Test method and requirements (phase 2, step 1).

Signed:	17 Maria
C	Michelle Shaw Microbiologist
Date:	12413103