Wipe Out Food Safe Sanitiser

Product code: CP202/CP209

Introduction

The standard method 1276 describes a suspension test method for establishing whether a chemical disinfectant or antiseptic has or does not have bactericidal activity in the fields described in the scope. The test takes into account practical conditions of application of the product, including contact time, temperature, test organisms and interfering substance, i.e. conditions which may influence its action in practical situations.

The conditions are intended to cover general purposes and to allow reference between laboratories and product types. Each utilization concentration of the chemical disinfectant or antiseptic found by this test corresponds to defined experimental conditions. However, for some applications, the recommendations of use of a product may differ and therefore additional test conditions may need to be used.

Outline of Test Method

A sample of the test product is diluted and added to a test suspension of bacteria in a solution of interfering substance. The mixture is maintained at 20oC for 5mins. At the end of the contact time an aliquot is taken and the bacterial / bacteriostatic activity is immediately neutralised or suppressed by the validated method.

The numbers of surviving bacteria in each sample are determined and the reduction is calculated. The test is performed using *Pseudomonas aeruginosa, Escherichia coli, Staphylococcus aureus* and *Enterococcus hirae* as standard organisms.

Deviations from Standard Method

The test was carried out at 2min, 1min and 30sec contact times.

Test Results (bactericidal suspension test)

Validation and controls

Validation Suspension (Nv_0)		Experimental Conditions Control (A)		Neutraliser or Filtration Control (B)		Method Validation (C)	
$Vc1$		$Vc1$		$Vc1$		$Vc1$	
Ps.60	$\bar{x} =$	Ps.40	$\bar{x} =$	Ps.50	$\bar{x} =$	Ps.60	$\bar{x} =$
Ec.100	Ps.61.5	Ec.60	Ps.44	Ec.50	Ps.53	Ec.60	Ps.55
Ent.70	Ec.105	Ent.60	Ec.59.5	Ent.50	Ec.56.5	Ent.58	Ec.61
MRSA. 50	Ent.69	MRSA.50	Ent.61	MRSA.40	Ent.49	MRSA.40	Ent.59
	MRSA.51.5		MRSA.50.5		MRSA.39		MRSA.39
$Vc2$		$Vc2$		$Vc2$		$Vc2$	
Ps.63		Ps.48		Ps.56		Ps.50	
Ec.110		Ec.59		Ec.63		Ec.62	
Ent.68		Ent.62		Ent.48		Ent.60	
MRSA.53		MRSA.51		MRSA.38		MRSA.38	
$30 \leq \bar{x}\ of\ Nv_0 \leq 160$?		$\bar{x}\ of\ A\ is \geq 0.5 \times \bar{x}\ of\ Nv_0$?		$\bar{x}\ of\ B\ is \geq 0.5 \times \bar{x}\ of\ Nv_0$?		$\bar{x}\ of\ C\ is \geq 0.5 \times \bar{x}\ of\ Nv_0$?	
Yes		Yes		Yes		Yes	

Pre Test - Sample Sterility check		
AMB	<10cfu/ml	Pass
Y&M	<10cfu/ml	Pass

COMPASS PRO™

Microbiological Report

Test Organism	Bacterial or Fungal Test Suspension : N	Test Procedure Contact Times			Pass/Fail
		30 Seconds	1 Minute	2Minute	
Pseudomonas aeruginosa ATCC 15442	10^{-7} : 15 ;14 No : 7.20	10^{-1} :0 ;0 Na : 0 R : 7.20	10^{-1} :0 ;0 Na : 0 R : 7.20	10^{-1} :0 ;0 Na : 0 R : 7.20	Pass
Escherichia coli ATCC 10536	10^{-7} :21 ;20 No : 7.31	10^{-1} :0 ;0 Na : 0 R : 7.31	10^{-1} :0 ;0 Na : 0 R : 7.31	10^{-1} :0 ;0 Na : 0 R : 7.31	Pass
Staphylococcus aureus ATCC 6538	10^{-7} :19 ; 21 No : 7.30	10^{-1} :0 ;0 Na : 0 R : 7.30	10^{-1} :0 ;0 Na : 0 R : 7.30	10^{-1} :0 ;0 Na : 0 R : 7.30	Pass
Enterococcus hirae ATCC 10541	10^{-7} :30 ; 33 No : 7.49	10^{-1} :0 ;0 Na : 0 R : 7.49	10^{-1} :0 ;0 Na : 0 R : 7.49	10^{-1} :0 ;0 Na : 0 R : 7.49	Pass

SPECTRUM

Key

No Log10 number of cfu/ml at the beginning of the contact time = N/10

Nvo is the number of cfu/ml in the validation test suspension at the beginning of the contact time

A is the verification of experimental conditions control

B is the neutraliser toxicity control

C is method validation

Vc is the colony forming units counted per 1ml of sample

$\bar{x}$ is the average of Vc1 & Vc2

$\bar{x}$ wm is the weighted mean of N

Na Log10 number of surviving cfu/ml in the test mixture

R (lg NO – lg Na = lg R) is the calculation for reduction in viability

PASS = lg R greater than or equal to 5

FAIL = lg R less than 5

> greater than

≥ equal to or greater than

< less than

≤ equal to or less than