

**TEST REPORT****SABS****MICROBIOLOGY DEPARTMENT 7218**

Health & Hygiene  
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U verw/Your ref: e-M 4/10/2004

Ons verw/Our ref: 17/37/9

Navrae/Enquiries: 428-6087

Datum/Date: 2005-02-04

1733791/04-3294/X38022-3

Bladsy/page 1 van/of 2

**DISINFECTANT EFFICACY TEST – EN 13704 - 2002**

**THIS TEST HAS BEEN  
 CARRIED OUT USING A  
 FIO "SUPER CONCENTRATE"  
 SAMPLE**

**1. DESCRIPTION OF SAMPLES**

Two samples labelled "F10SC B/N 050506 & F10SC B/N 211" were received on 7/10/2004 and tested on 13/10/2004 and 19/10/2004.

**2. TESTS REQUESTED**

Sporicidal activity of the chemical disinfectant using *Bacillus subtilis* spores as test organism.

**3. METHOD OF TEST**

The samples were tested in accordance with EN 13704-2002 Specification for Disinfectants.

3.1 A test suspension of bacterial spores in solution of interfering substance, simulating clean conditions, added to a preparation sample of the product under test diluted in hard water. (Dilution 1/100)

3.2 The mixture is maintained at 20°C ± 1°C for 5 minutes ± 10 seconds.

3.3 At this contact time an aliquot was taken and the sporicidal action is immediately neutralized using a suitable neutralizer.

3.4 Test spore suspension *Bacillus subtilis* ATCC 6633.

Spore suspension requirement:

The number of spores in the test suspension adjusted to  $1,5 \times 10^6$  to  $5 \times 10^6$  cfu/ml.

Suspension maintained in a water bath at 20°C ± 1°C (use within 2 hours)

4 Results / ....

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This test was performed by Testing and Conformity Services (Pty) Ltd, an affiliate of the SABS. This report relates only to the specific sample(s) tested as identified herein. It does not imply SABS approval of the quality and/or performance of the item(s) in question and the test results do not apply to any similar item that has not been tested. (Refer also to the complete conditions printed on the back of the official test reports.)

# SABS test report

REPORT No. 1733791/04-3294/X38022-3

Page 2

3.5 Hard Water – anhydrous magnesium chloride, anhydrous calcium chloride and sodium bicarbonate.  
3.6 Interfering substance – 1% Skimmed milk

## 4. RESULTS

Sporicidal activity of F10SC (B/N 050506 and B/N 211)

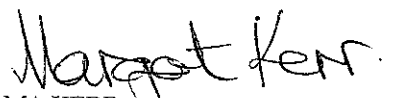
Sample	Dilution	Contact time	Serial dilution	Percentage kill of	
				<i>B. subtilis</i> spores	
				13/10/2004	19/10/2004
F10SC B/N 050506 (X38022)	1/100	5min	Direct	99,74	99,80
			10 <sup>-1</sup>	99,86	99,98
			10 <sup>-2</sup>	99,99	99,99
			10 <sup>-3</sup>	99,99	99,99
F10SC B/N 211 (X38023)	1/100	5 min	Direct	99,97	99,97
			10 <sup>-1</sup>	99,99	99,99
			10 <sup>-2</sup>	99,99	99,99
			10 <sup>-3</sup>	99,99	99,99


### Spore suspension:

Initial spore suspension count -  $2,85 \times 10^6$  cfu /ml (within the requirement)

### Conclusion:

Sporicidal activity for specific purpose is characterized by the concentration of the test product for which criteria are met for which a 10<sup>3</sup> (99,9%) or more reduction in viability is demonstrated under required test conditions.

  
MA KERR  
TEST OFFICER: MICROBIOLOGY

  
RA ROOS  
MANAGER: MICROBIOLOGY

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