DISINFECTANT EFFICACY TEST - EN 13704 - 2002

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 x 10⁶ to 5 x 10⁶ cfu/ml.
   Suspension maintained in a water bath at 20°C ± 1°C (use within 2 hours)
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)

<table>
<thead>
<tr>
<th>Sample</th>
<th>Dilution</th>
<th>Contact time</th>
<th>Serial dilution</th>
<th>Percentage kill of B. subtilis spores</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Dilution</td>
<td>13/10/2004</td>
</tr>
<tr>
<td>F10SC</td>
<td>1/100</td>
<td>5min Direct</td>
<td>10⁻¹</td>
<td>99,74</td>
</tr>
<tr>
<td>B/N 050506</td>
<td></td>
<td></td>
<td>10⁻²</td>
<td>99,86</td>
</tr>
<tr>
<td>(X38022)</td>
<td></td>
<td></td>
<td>10⁻³</td>
<td>99,99</td>
</tr>
<tr>
<td>F10SC</td>
<td>1/100</td>
<td>5 min Direct</td>
<td>10⁻¹</td>
<td>99,97</td>
</tr>
<tr>
<td>B/N 211</td>
<td></td>
<td></td>
<td>10⁻²</td>
<td>99,99</td>
</tr>
<tr>
<td>(X38023)</td>
<td></td>
<td></td>
<td>10⁻³</td>
<td>99,99</td>
</tr>
</tbody>
</table>

Spore suspension:

Initial spore suspension count - 2,85 x 10⁶ 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 10⁻³ (99.9%) or more reduction in viability is demonstrated under required test conditions.

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