MICROBIOLOGY DEPARTMENT 7218

Health & Hygiene
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THIS TEST HAS BEEN CARRIED OUT USING A FIO "SUPER CONCENTRATE" SAMPLE

1. DESCRIPTION OF SAMPLE

One sample labelled “F10SC B/N 211” was received on 6/7/2004 and tested on 9/7/2004.

2. TESTS REQUESTED

Fungicidal activity of the chemical disinfectant using Aspergillus niger spores as test organism.

3. METHOD OF TEST

The sample was tested in accordance with EN 13697 - 2001 Specification for Disinfectants.

3.1 A test suspension of fungal spores in solution of interfering substance, simulating clean conditions, added to a preparation sample of the product under test diluted in hard water.

3.2 The mixture is maintained at 20°C ± 1°C for 5 minutes and 15 minutes ± 10 seconds.

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

3.4 Test spore suspension Aspergillus niger ATCC 16404.

Spore suspension requirement:
The number of spores in the test suspension adjusted to 1.5 x 10^6 to 5 x 10^6 cfu/ml.
Suspension maintained in a water bath at 20°C ± 1°C (use within 2 hours)

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

4. RESULTS

Fungicidal activity of F10SC (B/N 211)

<table>
<thead>
<tr>
<th>Sample</th>
<th>Dilution</th>
<th>Contact time</th>
<th>Direct</th>
<th>Aspergillus niger spores</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>cfu/ml duplicates</td>
</tr>
<tr>
<td>F10SC B/N 211</td>
<td>1/50</td>
<td>5min</td>
<td>Disc</td>
<td>111</td>
</tr>
<tr>
<td>(X31628)</td>
<td>1/50</td>
<td>15 min</td>
<td>Disc</td>
<td>77</td>
</tr>
<tr>
<td></td>
<td>1/100</td>
<td>5 min</td>
<td>Disc</td>
<td>88</td>
</tr>
<tr>
<td></td>
<td>1/100</td>
<td>15 min</td>
<td>Disc</td>
<td>60</td>
</tr>
</tbody>
</table>

Spore suspension:
Initial spore suspension count – $1.6 \times 10^6$ cfu/ml (within the requirement)

Conclusion:
Quantitative non-porous surface test (disc) for the evaluation of fungicidal activity of chemical disinfectants used in the food, industrial, domestic and institutional areas – without mechanical action for which a $10^3$ (99.99%) or more reduction in viability is demonstrated under required test conditions.

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