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Bactericidal and Fungicidal Quantitative Suspension Test

Date of Report: Feb 24, 2014

Client Company: Eplan International Co. Ltd

Name of Product: Ewash

Manufacturer / Supplier: Eplan Japan

Physical Parameters:

| | |
|--------------------|------------------|
| Storage condition: | Room Temperature |
| Appearance: | Colourless 無色 |
| Odour: | Odourless 無臭 |
| Weight: | 0.999g/mL |
| pH: | 12.47 |

Experimental Conditions:

| | |
|-------------------------|---|
| Period of Testing: | June to November, 2013 |
| Test Organisms: | <i>E.coli</i> ATCC 35218 大腸桿菌 <i>Klebsiella pneumoniae</i> ATCC 700603 克雷伯氏肺炎菌 <i>Pseudomonas aeruginosa</i> ATCC 15442 綠膿桿菌 <i>Staphylococcus aureus</i> ATCC 6538 金黃色葡萄球菌 <i>Staphylococcus aureus</i> ATCC BAA-43 (Methicillin - resistant <i>Staphylococcus aureus</i>) 抗藥性金黃色葡萄球菌 (能抵抗所有青黴素) <i>Enterococcus faecium</i> ATCC 35667 腸球菌 <i>Candida albicans</i> ATCC 90028 白色念珠菌 <i>Trichophyton mentagrophytes</i> ATCC 9129 鬚毛癬菌 |
| Test Temperature: | 20°C |
| Incubation Temperature: | 35°C |
| Contact time: | 0 - 120 minutes |

Results:

| Test Organisms: | Contact time required to achieve 4 decimal log reduction in bacterial counts : |
|---|--|
| 大腸桿菌 <i>E.coli</i> ATCC 35218 | Immediate post-inoculation (time zero) |
| 克雷伯氏肺炎菌 <i>Klebsiella pneumoniae</i> ATCC 700603 | Immediate post-inoculation (time zero) |
| 綠膿桿菌 <i>Pseudomonas aeruginosa</i> ATCC 15442 | Immediate post-inoculation (time zero) |
| 金黃色葡萄球菌 <i>Staphylococcus aureus</i> ATCC 6538 | 60 minutes |
| 抗藥性金黃色葡萄球菌 (能抵抗青黴素)(Methicillin - resistant <i>Staphylococcus aureus</i>) | 30 minutes |
| 腸球菌 <i>Enterococcus faecium</i> ATCC 35667 | # |
| 白色念珠菌 <i>Candida albicans</i> ATCC 90028 | 120 minutes |
| 鬚毛癭菌 <i>Trichophyton mentagrophytes</i> ATCC 9129 | ## |

One decimal log reduction observed after 120 minutes incubation.

Less than one decimal log reduction after 120 minutes incubation.

Conclusions:

1. The product *Ewash* possesses immediate bactericidal activity against *E.coli* ATCC 35218, *Klebsiella pneumoniae* ATCC 700603, and *Pseudomonas aeruginosa* ATCC 15442 in the conditions of the test.

在測試中，*Ewash*對 大腸桿菌、克雷伯氏肺炎菌、綠膿桿菌 有即時的殺菌能力。

2. The product *Ewash* possesses bactericidal activity against *Staphylococcus aureus* ATCC 6538, and *Staphylococcus aureus* ATCC BAA-43 (Methicillin – resistant *Staphylococcus aureus*) after the indicated extended contact time.

*Ewash*對 金黃色葡萄球菌、抗藥性金黃色葡萄球菌 接觸一定的時間後會殺死細菌。

3. The product *Ewash* does not possess reasonable bactericidal activity and fungicidal against *Enterococcus faecium* ATCC 35667, *Candida albicans* ATCC 90028, and *Trichophyton mentagrophytes* ATCC 9129.

4. In order to qualify the product for a defined purpose it shall be evaluated using additional standard tests which are appropriate to its intended use.



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