

TEST REPORT

Applicant: INMADE LIMITED
RM 1301 13/F WINSOME HOUSE
73 WYNDHAM ST CENTRAL
HK

Number: HKGH02293998

Date: May 23, 2018

Submitted sample said to be :
Item Name : **InSpray**
Quantity : One bottle
Country of Origin : Hong Kong

Conclusion:

The submitted sample was tested under the following requirements requested by the applicant, subject to the information stated in the remark and attached page(s) for details :

<u>Requirement 要求</u>	<u>Result 測試結果</u>
(1) Antibacterial Activity of Chemical Disinfectants and Antiseptics (BS EN 1276:2009 with modification) - <i>Escherichia coli</i> (ATCC 10536) - <i>Pseudomonas aeruginosa</i> (ATCC 15442) - <i>Staphylococcus aureus</i> (ATCC 6538) - <i>Enterococcus hirae</i> (ATCC 10541)	Pass
(2) 化學消毒劑之殺真菌能力 (BS EN 1276:2009 with modification) - 大腸桿菌 (ATCC 10536) - 綠膿桿菌 (ATCC 15442) - 金黃色葡萄球菌 (ATCC 6538) - 空腸腸球菌 (ATCC 10541)	合格

For and on behalf of :
Intertek Testing Services HK Ltd.



Angel Y.F. Cheung
Vice President



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(1) Quantitative suspension test for evaluation of bactericidal activity of chemical disinfectants and antiseptics

Test Standard : BS EN 1276:2009 (with modification).

Product test concentration: 80% (V/V)

Active ingredient in product: HClO, Hypochlorous acid (60 ppm)

Appearance: Colorless liquid

Contact time: (1) 15 seconds
(2) 30 seconds

Test temperature: 20°C

Interfering substance: Sterile water instead of 0.3 g/L bovine albumin (clean condition), as per client's request and confirmation

Inhibition method: Dilution-neutralization

Neutralizing solution: D/E neutralizing broth - single strength (sodium thioglycollate 1.0 g/L, sodium thiosulfate 6.0 g/L, sodium bisulfite 2.5 g/L, Polysorbate 80 5.0 g/L, lecithin 7.0 g/L)

Incubation: 37°C, 48 hours

Agar medium: Trypticase Soy Agar

Test culture: *Escherichia coli* (ATCC 10536)
Pseudomonas aeruginosa (ATCC 15442)
Staphylococcus aureus (ATCC 6538)
Enterococcus hirae (ATCC 10541)

Controls & validation :

<u>Test microorganism</u>	<u>Validation suspension (N_v)</u> Criteria: 300 ≤ N_v ≤ 1600	<u>Method validation</u> Criteria: ≥ 0.05 N_v	<u>Validity</u>
<i>Escherichia coli</i> (ATCC 10536)	420	42	Valid
<i>Pseudomonas aeruginosa</i> (ATCC 15442)	780	60	Valid
<i>Staphylococcus aureus</i> (ATCC 6538)	1135	98	Valid
<i>Enterococcus hirae</i> (ATCC 10541)	740	66	Valid



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Result :

Contact time (1) 15 seconds

<u>Test microorganism</u>	<u>Initial suspension (N)</u> No=(1/10N) Criteria: $1.5 \times 10^8 \leq N \leq 5 \times 10^8$	<u>Final count</u> <u>Na</u>	<u>R (Log₁₀ Reduction)</u> = Log No - Log Na Criteria: R ≥ 5.0	<u>R (% Reduction)</u> = (No-Na) / No Criteria: R ≥ 99.999%
<i>Escherichia coli</i> (ATCC 10536)	2.0 x 10 ⁸	<140	5.2	99.999
<i>Pseudomonas aeruginosa</i> (ATCC 15442)	3.3 x 10 ⁸	<140	5.4	99.999
<i>Staphylococcus aureus</i> (ATCC 6538)	4.3 x 10 ⁸	<140	5.5	99.999
<i>Enterococcus hirae</i> (ATCC 10541)	3.8 x 10 ⁸	<140	5.4	99.999

Contact time (2) 30 seconds

<u>Test microorganism</u>	<u>Initial suspension (N)</u> No=(1/10N) Criteria: $1.5 \times 10^8 \leq N \leq 5 \times 10^8$	<u>Final count</u> <u>Na</u>	<u>R (Log₁₀ Reduction)</u> = Log No - Log Na Criteria: R ≥ 5.0	<u>R (% Reduction)</u> = (No-Na) / No Criteria: R ≥ 99.999%
<i>Escherichia coli</i> (ATCC 10536)	2.0 x 10 ⁸	<140	5.2	99.999
<i>Pseudomonas aeruginosa</i> (ATCC 15442)	3.3 x 10 ⁸	<140	5.4	99.999
<i>Staphylococcus aureus</i> (ATCC 6538)	4.3 x 10 ⁸	<140	5.5	99.999
<i>Enterococcus hirae</i> (ATCC 10541)	3.8 x 10 ⁸	<140	5.4	99.999

Criteria: According to EN 1276, in order to satisfy the requirement of bactericidal efficacy of chemical disinfectants and antiseptics, the product shall demonstrate at least 99.999% or 5.0 log₁₀ reduction of the specified test organisms under the obligatory sample contact time, test temperature, and the simulated clean conditions according to its practical applications when the product is tested at its intended use dilution.

Sample received condition: Sample in closed original package.

Date sample received : May 07, 2018
 Testing period : May 08, 2018 to May 18, 2018



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(2) 定量懸浮液測試 - 用以評估化學消毒劑之殺細菌能力

測試標準: BS EN 1276:2009 (with modification).

產品測試濃度: 80% (V/V)

產品之有效成份: HClO, Hypochlorous acid (60 ppm)

外型: Colorless liquid

作用時間: (1) 15 seconds
(2) 30 seconds

測試溫度: 20°C

稀釋物: Sterile water instead of 0.3 g/L bovine albumin (clean condition), as per client's request and confirmation

抑制方法: Dilution-neutralization

中和溶液: D/E neutralizing broth - single strength (sodium thioglycollate 1.0 g/L, sodium thiosulfate 6.0 g/L, sodium bisulfite 2.5 g/L, Polysorbate 80 5.0 g/L, lecithin 7.0 g/L)

培養條件: 37°C, 48 hours

瓊脂培養介質: 胰酪朊大豆瓊脂

測試之對象細菌: 大腸桿菌 (ATCC 10536)
綠膿桿菌 (ATCC 15442)
金黃色葡萄球菌 (ATCC 6538)
空腸腸球菌 (ATCC 10541)

控制及驗證:

測試細菌	驗證原接菌量(N _v) (CFU/mL) Criteria: 300 ≤ N _v ≤ 1600	驗證方式 Criteria: ≥ 0.05 N _v	有效性
大腸桿菌 (ATCC 10536)	420	42	有效
綠膿桿菌 (ATCC 15442)	780	60	有效
金黃色葡萄球菌 (ATCC 6538)	1135	98	有效
空腸腸球菌 (ATCC 10541)	740	66	有效



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測試結果：

作用時間 (1) 15 seconds

<u>測試細菌</u>	<u>初步原接菌量(N)</u> No=(1/10N) (CFU/mL) Criteria: $1.5 \times 10^8 \leq N \leq 5 \times 10^8$	<u>最終數目</u> (CFU/mL) <u>Na</u>	<u>殺菌率 (%)</u> <u>R (% Reduction)</u> = (No-Na) / No Criteria: R ≥ 99.999%	<u>作用時間</u>
大腸桿菌 (ATCC 10536)	2.0×10^8	<140	99.999	15 seconds
綠膿桿菌 (ATCC 15442)	3.3×10^8	<140	99.999	15 seconds
金黃色葡萄球菌 (ATCC 6538)	4.3×10^8	<140	99.999	15 seconds
空腸腸球菌 (ATCC 10541)	3.8×10^8	<140	99.999	15 seconds



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作用時間 (2) 30 seconds

測試細菌	初步原接菌量(N) No=(1/10N) (CFU/mL) Criteria: $1.5 \times 10^8 \leq N \leq 5 \times 10^8$	最終數目 (CFU/mL) Na	殺菌率 (%) R (% Reduction) = (No-Na) / No Criteria: R \geq 99.999%	作用時間
大腸桿菌 (ATCC 10536)	2.0×10^8	<140	99.999	30 seconds
綠膿桿菌 (ATCC 15442)	3.3×10^8	<140	99.999	30 seconds
金黃色葡萄球菌 (ATCC 6538)	4.3×10^8	<140	99.999	30 seconds
空腸腸球菌 (ATCC 10541)	3.8×10^8	<140	99.999	30 seconds

標準： 根據 EN1276 測試方法，為了符合其測試化學消毒劑殺細菌效果的要求，產品需根據實際應用下制定其測試條件，包括作用時間、測試溫度，並且需減少指定測試真菌數目至最少 99.999% 殺菌率。

樣板配送資訊： 完整密封包裝樣本。

寄送樣板日期： May 07, 2018

測試日期： May 08, 2018 to May 18, 2018



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End of report

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