



ATTESTATION REPORT

Date: 2019-09-11

Page 1 of 3

No.: T01607-5

Applicant : Chiaphua Industries Ltd.
Unit A, 2/F, Chiaphua Industries Building, Nos 8-10 Siu Lek
Yuen Road, Sha Tin, New Territories, Hong Kong

Description of Sample(s) : Product name in English: THYME DISINFECTION SPRAY
Product name in Chinese: 百里香消毒噴劑
Model no.: GMTHYME; 1/128THYME
Brand name: GERMAGIC; 菌魔力, 霉菌滅
Quantity submitted: 4 bottles

Date Sample(s) Received : 2019-03-18

Date Testing : 2019-03-18 to 2019-06-28

Investigation Requested : 穩定性測試.

Conclusions : Referring to Test Summary.

Remark(s) : Report content referring to SCTR No.:2019SP1434R01a.



Lee Mei Yu, Amy
Certification Officer
For and on behalf of
The Hong Kong Certification Centre Ltd



ATTESTATION REPORT

Date: 2019-09-11

Page 2 of 3

No.: T01607-5

Test Summary

1. 穩定性測試

一. 器材

1. 試驗樣品 : Disinfection (Thyme) 消毒劑 (百里香)
2. 試驗菌株 : 大腸桿菌 (*Escherichia coli*) 8099 第 5 代, 金黃色葡萄球菌 (*Staphylococcus aureus*) ATCC 6538 第 4 代, 白色念珠菌 (*Candida albicans*) ATCC 10231 第 3 代, 菌株來源: 廣東省微生物研究所菌種保藏中心.
3. 主要儀器與編號 : 生化培養箱 QSP-B-I001 及 QSP-B-I002, 恆溫恆濕培養箱 QSP-B-I011.

二. 方法

1. 菌懸液的製備 : 將新鮮培養的菌株用 PBS 洗下, 製成 1.0×10^5 cfu/mL ~ 9.0×10^5 cfu/mL 的菌懸液.
2. 檢測方法 : 依據<一次性使用衛生用品衛生標準> GB 15979-2002 附錄 C6, 將原包裝樣品置 37.0°C 生化培養箱內 3 個月, 保持相對濕度 $\geq 75\%$, 抽樣進行抑菌性能測試, 用試驗樣品原液, 作用時間 2min, 試驗重覆 3 次.
3. 檢測條件 : 溫度:24°C, 濕度:62%.

三. 結果

作用濃度與作用時間	測試微生物	序號	對照組菌落總數 (cfu/mL)	試驗組菌落總數 (cfu/mL)	抑菌率 (%)
原液 2min	大腸桿菌 (<i>Escherichia coli</i>) 8099	1	3.8×10^4	<10	>99.97
		2	3.7×10^4	<10	>99.97
		3	3.9×10^4	<10	>99.97
		平均值			>99.97
	金黃色葡萄球菌 (<i>Staphylococcus aureus</i>) ATCC 6538	1	3.4×10^4	<10	>99.97
		2	3.5×10^4	<10	>99.97
		3	3.6×10^4	<10	>99.97
		平均值			>99.97
	白色念珠菌 (<i>Candida albicans</i>) ATCC 10231	1	1.7×10^4	<10	>99.94
		2	1.5×10^4	<10	>99.93
		3	1.5×10^4	<10	>99.93
		平均值			>99.93

四. 結論

樣品經存放後(加速試驗法: 置 37°C 生化培養箱內 3 個月, 保持相對濕度 $\geq 75\%$), 取試驗樣品原液, 作用時間 2min, 試驗重覆 3 次, 對大腸桿菌, 金黃色葡萄球菌及白色念珠菌的平均抑菌率分別為 >99.97%, >99.97%, >99.93%, 對所測菌株具有抑菌作用, 因此該樣品對所測抑菌作用在室溫下至少保持 2 年.



ATTESTATION REPORT

Date: 2019-09-11
No.: T01607-5

Page 3 of 3

Product Photo



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Certification of Translation

Ectranslator Translations Services, a translation company in China, is competent to translate from Simplified Chinese into English, and certify that the translation of "Stability Test of GERMAGIC DISINFECTANT SPRAY" is true and accurate to the best of our abilities.



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Page 1 of 3

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Model no.: GMTHYME; 1/128THYME
Brand name: GERMAGIC; 菌魔力, 黴菌滅
Quantity submitted: 4 bottles

Date Sample(s) received : March 18, 2019

Date Testing : Mar 18, 2019 to Jun 28, 2019

Investigation requested : Stability test.

Conclusion : Referring to Test Summary.

Remark(s) : Report content referring to SCTR No.: 2019SP1434R01a

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Page 2 of 3

Test Summary

1. Stability test

I. Equipment

1. Test sample : DisinfectANT (Thyme) 消毒劑 (百里香)
2. Test strain : *Escherichia Coli* 8099 3rd generation, *Staphylococcus aureus* ATCC 6538 4th generation, *Candida albicans* ATCC 10231 3rd Generation
Source of strain: Strain Collection Center of Guangdong Institute of Microbiology.
3. Main instruments : Biochemical incubator QSP-B-I001 and QSP-B-I002, constant temperature and humidity incubator QSP-B-I011.

II. Methods:

1. The preparation of bacterial suspension: : The freshly cultured strains were washed and collected with PBS to produce 1.0×10^5 cfu/mL~ 9.0×10^5 cfu/mL bacterial suspension.
2. Testing method: : According to <Hygienic standard for disposable sanitary products> GB 15979-2002 - Appendix C6, the samples in their original packaging was placed in a biochemical incubator at 37.0°C for 3 months, with a relative humidity $\geq 75\%$. The sample was used for antibacterial performance test. The test sample stock solution was applied for 2 min and the test was repeated 3 times.
3. Test conditions : Temperature: 24°C, Relative humidity: 62%.

III. Results:

Concentration and time of application	Tested microorganism	Serial No.	Total viable count in control group (cfu/mL)	Total viable count in test group (cfu/mL)	Antibacterial rate %
Stock solution 2min	大腸桿菌 (<i>Escherichia coli</i>) 8099	1	3.3×10^4	<10	>99.97
		2	3.5×10^4	<10	>99.97
		3	3.8×10^4	<10	>99.97
		Mean			>99.97
	金黃色葡萄球菌 (<i>Staphylococcus aureus</i>) ATCC 6538	1	1.3×10^4	<10	>99.92
		2	1.5×10^4	<10	>99.93
		3	1.5×10^4	<10	>99.93
		Mean			>99.93
	白色念珠菌 (<i>candida albicans</i>) ATCC 10231	1	3.4×10^4	<10	>99.97
		2	3.7×10^4	<10	>99.97
		3	3.6×10^4	<10	>99.97
		Mean			>99.97

IV. Conclusions:

After the sample is stored (accelerated stability testing), it was placed in a biochemical incubator at 37 °C for 3 months with a relative humidity $\geq 75\%$. Apply the stock solution of the test sample for 2 mins and repeat the test 3 times. Its mean antibacterial rate against *Escherichia coli*, *Staphylococcus aureus* and *Candida albicans* is > 99.97%, > 99.97% and > 99.93%, respectively. It has an antibacterial effect on the tested strains, so the sample can retain its antibacterial effect on the tested strains for at least 2 years if stored at room temperature.



ATTESTATION REPORT

Date: Sept 11, 2019
No.: T01607-5

Page 3 of 3

Product Photo



*****END OF REPORT*****