



## ATTESTATION REPORT

Date: 2019-09-11  
No.: T01607-14

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**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** : 急性吸入毒性.

**Conclusions** : Referring to Test Summary.

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

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



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### Test Summary

#### 1. 急性吸入毒性

##### 一. 材料

1. 受試樣品 : 送檢樣品原液.
2. 動物 : 健康, 健康 KM 小鼠(SPF 級) 20 隻, 雌雄各半, 實驗動物體重之間相差不超過平均體重的 20%, 來源於斯貝福(北京)生物技術有限公司. 動物生產許可證號: SCXK(京)2016-0002, 動物合格證號為 1103241911004295. 本中心實驗動物使用許可證號: SYXK(粵)2016-0156. 飼養環境: 室溫(°C): 23, 相對濕度(%): 70. 試驗前動物在檢疫室適應 4d 時間, 常規飼料餵養, 自由飲水.
3. 劑量水平 : 採用一次限量法 (2h 內吸入毒性濃度 10000mg/m<sup>3</sup>).
4. 主要儀器與試劑 : 電子稱 QDW-C-V001, 全身全相態毒性實驗設備(吸入櫃)QDW-A-G001.

##### 二. 方法

1. 檢測依據 : <消毒技術規範>(衛生部 2002 年版) 第二部分-2.3.2.
2. 試驗方法 : (1) 採用動式染毒法, 計算染毒濃度, 通氣量, 樣品流量和樣品使用量.  
(2) 染毒後對每隻動物進行單獨全面的記錄, 第一天要定時觀察實驗動物的中毒表現和死亡情況, 其後每天至少進行一次仔細檢查, 分別於染毒後第 0d, 7d 和 14d 稱量體重一次. 觀察期限一般不超過 14d, 若有死亡延遲跡象, 可延長觀察時間. 觀察結束後, 處死動物進行大體解剖學檢查.
3. 結果評價 : 評價結果時, 根據數據測定 LC<sub>50</sub>, 將 LC<sub>50</sub> 與觀察到的毒性效應和屍檢所見相結合考慮, 按吸入毒性分級表進行判定. 如一次 2h 吸入毒性濃度 10000mg/m<sup>3</sup>, 在 14 天內無動物死亡, 可判 LC<sub>50</sub>>10000mg/m<sup>3</sup>.



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#### 三. 試驗結果

動物性別	動物體重 (g)				死亡時間
	編號	D0	D7	D14	
♂	1	21.2	30.6	39.3	無
	2	21.1	30.4	40.0	無
	3	20.9	29.8	38.4	無
	4	20.3	29.6	38.6	無
	5	20.8	29.5	38.0	無
	6	19.9	28.9	38.4	無
	7	20.3	28.9	37.5	無
	8	20.7	29.9	39.1	無
	9	21.3	30.7	40.1	無
	10	20.7	30.1	38.9	無
	均值±標準差	20.72±0.44	29.84±0.64	38.83±0.83	
♀	1	19.2	28.0	37.4	無
	2	20.1	29.0	38.1	無
	3	19.7	28.9	37.7	無
	4	20.5	29.0	37.7	無
	5	19.8	29.1	38.4	無
	6	20.0	28.8	37.6	無
	7	21.0	30.1	38.7	無
	8	19.4	28.3	37.2	無
	9	20.5	29.3	38.5	無
	10	19.8	28.7	37.7	無
	均值±標準差	20.00±0.55	28.92±0.57	37.90±0.50	

#### 四. 結論

受試物對昆明小鼠急性吸入毒性半數致死量  $LC_{50}$  大於 10000mg/kg·BW, 急性毒性劑量分級為實際無毒.



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### Product Photo



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

## 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 "Acute Inhalation Toxicity Experiment of GERMAGIC DISINFECTANT SPRAY" is true and accurate to the best of our abilities.



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**Applicant** : Chiaphua Industries Ltd.  
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**Description of sample(s)** : Product name in English: THYME DISINFECTANT SPRAY  
Product name in Chinese: 百里香消毒噴劑  
Model no.: GMTHYME; 1/128THYME  
Brand name: GERMAGIC; 菌魔力, 霾菌滅  
Quantity submitted: 4 bottles

**Date Sample(s) received** : March 18, 2019

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

**Investigation requested** : Acute Inhalation Toxicity.

**Conclusion** : Refer to Test Summary.

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

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### Test Summary

#### 1. Acute inhalation toxicity

##### **I. MATERIALS**

1. Test sample : The stock solution of the sample submitted for test.
2. Animals : Twenty healthy KM mice (SPF grade), half of which were male and the other half female. The weight difference among the experimental animals is no more than 20% of the average weight, the mice were provided by SPF (Beijing) Biotechnology Co., Ltd. Animal production license number: SCXK (Beijing) 2016-0002, Animal Certificate No.1103241911004295.  
The license number of using laboratory animals in the center: SYXK (Guangdong) 2016-0156. Feeding environment: Room temperature (°C): 23, relative humidity (%): 70. Before the experiment, the animals were acclimatized in the quarantine room for 4 days. The animals were feed with common diet and were given ad-litum access to water.
3. Dose level : One-time limit method (inhalation toxicity concentration within 2 hours: 10000mg/m<sup>3</sup>).
4. Main instruments and reagents : Electronic scale QDW-C-V001, whole body total phase toxicity test equipment (Inhalation Exposure Chamber) QDW-A-G001.

##### **II. Methods:**

1. Test basis : *Technical Standards for Disinfection* (Ministry of Health, 2002 Edition) – 2.3.2
2. Test method : (1) Dynamic exposure method was used; the exposure concentration, ventilation volume, flow rate of sample and dosage of sample were calculated.  
(2) After exposure, each animal should be recorded separately and comprehensively. On the first day, the poisoning symptoms and death of experimental animals should be observed regularly. Thereafter, careful examination should be conducted at least once a day. Weighing should be carried out on the 0th day, 7th day and 14th day after exposure, respectively. The observation period is generally not more than 14 days. If there are signs of delayed death, the observation period can be extended. After the observation, the animals were sacrificed for gross anatomy examination.
3. Results evaluation : When evaluating the results, LC<sub>50</sub> is determined according to the data. LC<sub>50</sub> is considered in combination with the observed toxic effect and autopsy findings. It is determined according to the inhalation toxicity classification table. If the 2h inhalation toxicity is 10000mg/m<sup>3</sup>, and no animal died within 14 days, it is concluded that LC<sub>50</sub>>10000mg/m<sup>3</sup>.

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**III. Test Result**

Gender of animals	Animal weight (g)				Time of death
	Number	D0	D7	D14	
♂	1	21.2	30.6	39.3	None
	2	21.1	30.4	40.0	None
	3	20.9	29.8	38.4	None
	4	20.3	29.6	38.6	None
	5	20.8	29.5	38.0	None
	6	19.9	28.9	38.4	None
	7	20.3	28.9	37.5	None
	8	20.7	29.9	39.1	None
	9	21.3	30.7	40.1	None
	10	20.7	30.1	38.9	None
	Mean Standard deviation, ±	20.72±0.44	29.84±0.64	38.83±0.83	
♀	1	19.2	28.0	37.4	None
	2	20.1	29.0	38.1	None
	3	19.7	28.9	37.7	None
	4	20.5	29.0	37.7	None
	5	19.8	29.1	38.4	None
	6	20.0	28.8	37.6	None
	7	21.0	30.1	38.7	None
	8	19.4	28.3	37.2	None
	9	20.5	29.3	38.5	None
	10	19.8	28.7	37.7	None
	Mean Standard deviation, ±	20.00±0.55	28.92±0.57	37.90±0.50	

**IV. Conclusions:**

The LC<sub>50</sub> of the acute inhalation toxicity of the tested substance to Kunming mice is more than 10000 mg/kg BW, and the acute toxicity dose is classified as practically non-toxic.





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