



标题 微生物测试

测试地点 TÜV SÜD 中国
南德商品检测(上海)有限公司
中国.上海闵行区都会路 1999 号 B 幢 3/4 楼
邮编:201108

委托方名称 捷和实业有限公司

委托方地址 香港新界沙田小沥源路 8-10 号捷和实业大厦 2 楼 A 单位

测试周期 29-05-2020~07-09-2020

测试要求 持续抗菌试验- 参照 WS/T 650-2019

报告起草

许瑞娇

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报告起草人




Note: (1) General Terms & Conditions as mentioned overleaf. (2) The results relate only to the items tested.(3) The test report shall not be reproduced except in full without the written approval of the laboratory.(4) Without the agreement of the laboratory, the client is not authorized to use the test results for unapproved propaganda.

收样日期/ 测试日期

29-05-2020/ 29-05-2020

样品由客户提供并描述如下

样品名称: GERMAGIC Thyme 90
样品规格: Liquid
样品批号/生产日期: HKUST20200420GMTP
生产商: /

样品编号	描述	照片
721655096-2	瓶装样品	

测试方法

持续抗菌试验

- 参照 WS/T 650-2019 抗菌和抑菌效果评价方法 5.2.7

测试要求

1.持续抗菌

稀释倍数: 原液

样液接触时间: 0.4mL 样液至无菌玻璃片, 室温 90 天

染菌作用时间: 0.4mL 菌液至无菌玻璃片, 9 分钟 55 秒

中和剂: 1%皂角苷+ 4%卵磷脂+6%TW80 的 D/E 肉汤

2.中和剂验证

接触时间: 9 分钟 55 秒

中和剂: 1%皂角苷+ 4%卵磷脂+6%TW80 的 D/E 肉汤

试验分组: 第一组: 中和剂+菌悬液; 第二组: (抗菌剂+中和剂) + 菌悬液; 第三组: 稀释液+菌悬液; 第四组: 稀释液+中和剂+培养基。

测试菌种

金黄色葡萄球菌 ATCC 6538





测试结果

1.持续抗菌

测试菌种	平行数	接种菌液浓度 (CFU/mL)	接触时间	对照组菌落数 (CFU/片)	样品组菌落数 (CFU/片)	杀菌率 (%)
金黄色葡萄球菌 ATCC 6538	1	1.2×10 ⁵	9分钟 55 秒	4.2×10 ⁴	<10	>99.98
	2		9 分钟 55 秒	4.4×10 ⁴	<10	>99.98
	3		9 分钟 55 秒	4.2×10 ⁴	<10	>99.98

2.中和剂验证

测试菌种	接种菌液浓度 (CFU/mL)	试验分组	菌落数 (CFU/mL)	评价规定	单项判定	
金黄色葡萄球菌 ATCC 6538	2.1×10 ⁶	第一组	5.6×10 ⁴	菌落数应在 1~9×10 ⁴ CFU/mL, 其组间菌落数的误差 率<15%	合格	
			5.5×10 ⁴			
			5.2×10 ⁴			
		第二组	5.3×10 ⁴			
			5.0×10 ⁴			
			5.1×10 ⁴			
		第三组	5.4×10 ⁴			
			4.8×10 ⁴			
			4.6×10 ⁴			
		第四组	0			无菌落生长
			0			
			0			

备注:

1.CFU: 菌落形成单位

2.判定: 杀菌率: 大于 99.98%, 判定在室温情况下, 九十天内具有持续抗菌作用。

3.本报告中的数据结果供企业内部的科研、教学、质量控制、产品研发等目的使用。

-报告结束-



SUBJECT Microbiological Test

TEST LOCATION TÜV SÜD China
TÜV SÜD Products Testing (Shanghai) Co., Ltd.
B-3/4, No.1999 Du Hui Road, Minhang District
Shanghai 201108, P.R. China

CLIENT NAME Chiaphua Industries Limited

CLIENT ADDRESS Unit A, 2/F, Chiaphua Industries Building, Nos 8-10 Siu Lek Yuen Road,
Shatin, New Territories, Hong Kong

TEST PERIOD 29-May-2020~07-Sep-2020

TEST REQUEST Continued antibacterial activity - with reference to WS/T 650-2019

Prepared By

Bella Xu

(Bella Xu)
Report Drafter

Authorized By



(Leo Liu)
Authorized Signatory



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RECEIPT DATE /TEST DATE

29-May-2020/ 29-May-2020

THE FOLLOWING SAMPLE(S) WAS/WERE SUBMITTED

BY/ ON BEHALF OF THE CLIENTS AS:

Sample Name: GERMAGIC Thyme 90
Sample Specification: Liquid
Batch No./Date: HKUST20200420GMTP
Manufactory: /

SAMPLE NO.	DESCRIPTION	PHOTOGRAPH
721655096-2	Sample in the bottle	

TEST METHOD(S)

Continued antibacterial activity
- with reference to WS/T 650-2019 Evaluating method for efficacy of antibacterial and bacteriostasis 5.2.7

REQUIREMENT

1. Continued antibacterial activity

Product dilution: Neat

Sample solution contact time: 0.4 mL sample solution to sterile carrier at room temperture for 90 days

Organisms contact time: 0.4 mL organisms solution to sterile carrier for 9 minutes 55 seconds

Neutralizer: 1%Saponin+ 4%lecithin+6%TW80 of D/E broth

2.Verification test for neutralizer

Contact time: 9 minutes 55 seconds

Neutralizer : 1%Saponin+ 4%lecithin+6%TW80 of D/E broth

Test group: Group 1: Neutralizer+ Bacterial suspension; Group 2: (Antibacterial agent +Neutralizer)+

Bacterial suspension; Group 3: Diluent+ Bacterial suspension; Group 4: Diluent+ Neutralizer+ Medium

TEST ORGANISMS

Staphylococcus aureus ATCC 6538





TEST RESULT(S)

1. Continued antibacterial activity

Test Organisms	Test times	Inoculation concentration (CFU/mL)	Contact time	Survival bacteria from control (CFU/piece)	Survival bacteria from sample (CFU/piece)	Killing rate(%)
<i>Staphylococcus aureus</i> ATCC 6538	1	1.2×10 ⁵	9 minutes 55 seconds	4.2×10 ⁴	<10	>99.98
	2		9 minutes 55 seconds	4.4×10 ⁴	<10	>99.98
	3		9 minutes 55 seconds	4.2×10 ⁴	<10	>99.98

2.Verification test for neutralizer

TEST ORGANISMS	Inoculation concentration (CFU/mL)	Test group	Recovered colonies (CFU/mL)	Acceptance Criteria	Comment
<i>Staphylococcus aureus</i> ATCC 6538	2.1×10 ⁶	Group 1	5.6×10 ⁴	1~9×10 ⁴ CFU/mL, the error of three groups should <15%	Pass
			5.5×10 ⁴		
			5.2×10 ⁴		
		Group 2	5.3×10 ⁴		
			5.0×10 ⁴		
			5.1×10 ⁴		
		Group 3	5.4×10 ⁴		
			4.8×10 ⁴		
			4.6×10 ⁴		
		Group 4	0	No colony growth	
			0		
			0		

Note:

1.CFU: Colony forming unit

2.Conclusion: Killing rate is more than 99.98%. It is determined that the product has a continued antibacterial activity for at least 90 days at room temperature.

3.This report is for internal use only such as internal scientific research ,education, quality control, product R&D.

-END OF THE TEST REPORT-