Test Report **No: SHCPCH200403146** **Date: Jun 08 2020**

Client name:	CE Tools, Inc
Client address:	5300 Maryland Way, Brentwood, TN.
Sample name:	CE Tools, Inc Tough Wipes
Date of manufacture Valid Period or Batch/Exp. Date:	2020-04-11 CET110 2022-04-10
Manufacturer:	Guangzhou Sywipe Clean Technology Co., Ltd.
Color and state:	Blue dotted wet non woven

The above information and samples are provided and confirmed by the customer, and SGS is not responsible for confirming the accuracy, appropriateness and/or completeness of the information provided by the customer.

SGS job No.:	SHCPCH200403146
SGS reference No.:	/
Date of receipt:	2020-04-20
Testing period:	2020-04-20~2020-06-01

TEST(S) REQUESTED:
Selected test(s) as requested by applicant:
Bactericidal activity test for the submitted sample(s)

TEST METHOD(S):
GB 15979-2002 Hygienic standard for disposable sanitary products: C3: the test method of bactericidal activity

TEST ORGANISM(S):
Staphylococcus Aureus ATCC6538, *Escherichia coli* ATCC25922, *Candida Albicans* ATCC10231

TEST RESULT(S):
Please refer to next page

CONCLUSION:
Please refer to next page

Remark: The statement of conformity in this test report is only based on measured values by the laboratory and does not take their uncertainties into consideration.

Unless otherwise stated, the results shown in this test report apply only to the sample(s) as received, and this document cannot be used for publicity without approval of the Company, not be allowed to copy testing report (except for copy of full text) without written approval.

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Shanghai) Co.,Ltd

Authorized Signature Angela Yu

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Testing Center Cosmetics, Personal Care & Household
3rd Building, No.889, Yishan Road, Shanghai China 200233 t (86-21) 60645189 f (86-21) 60645127 www.sgsgroup.com.cn
中国·上海·徐汇区宜山路889号3号楼 邮编: 200233 t (86-21) 60645189 f (86-21) 60645127 e sgs.china@sgs.com

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CONCLUSION:

Test organisms	Test time (minute)	Test Result (Bactericidal rate %)	Standard Requirements(Provided By Client)	Comment
Escherichia coli ATCC25922	1	>99.9	Bactericidal rate≥90%, the product has bactericidal activity	Conform
		>99.9		
		>99.9		
Staphylococcus Aureus ATCC6538	1	>99.9		Conform
		>99.9		
		>99.9		
Candida Albicans ATCC10231	1	>99.9		Conform
		>99.9		
		>99.9		

TEST RESULT(S):

1) Neutralizer efficacy test:

a.

Test organism: *Escherichia coli* ATCC25922

Neutralizer: Neutralizer: 0.5% lecithin + 3% ethanol + 0.5% sodium thiosulfate + 5.0% Tween 80 + 91% PBS solution

Test time: 1 min

Test group		Average survival bacteria cfu/piece		
		Repeat 1	Repeat 2	Repeat 3
1.	Inoculated sample+5mL PBS	<10	<10	<10
2.	Inoculated sample+5mL neutralizer	80	1.4×10^2	1.2×10^2
3.	Inoculated control sample +5mL neutralizer	2.1×10^4	2.1×10^4	2.2×10^4
4.	sample +5mL neutralizer + Inoculated control sample	1.9×10^4	1.8×10^4	1.8×10^4
5.	Inoculated control sample +5mL PBS	2.2×10^4	2.2×10^4	2.3×10^4
the error rate between test group 3,4,5		5%	8%	10%
6.	Same batch of PBS	no bacteria growth	no bacteria growth	no bacteria growth
7.	Same batch of neutralizer	no bacteria growth	no bacteria growth	no bacteria growth
8.	Same batch of culture medium	no bacteria growth	no bacteria growth	no bacteria growth
The test evaluating of neutralizer		Pass	Pass	Pass
Comment		The selected neutralizer complies with standard requirements in identification test for *Escherichia coli*, can be used in the bactericidal test for *Escherichia coli*		

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b
Test organism: *Staphylococcus Aureus* ATCC6538
Neutralizer: Neutralizer: 0.5% lecithin + 3% ethanol + 0.5% sodium thiosulfate + 5.0% Tween 80 + 91% PBS solution
Test time: 1 min

Test group		Average survival bacteria cfu/piece		
		Repeat 1	Repeat 2	Repeat 3
1.	Inoculated sample+5mL PBS	<10	<10	<10
2.	Inoculated sample+5mL neutralizer	1.4×10^2	95	1.2×10^2
3.	Inoculated control sample +5mL neutralizer	2.4×10^4	2.5×10^4	2.3×10^4
4.	sample +5mL neutralizer + Inoculated control sample	2.3×10^4	2.3×10^4	2.2×10^4
5.	Inoculated control sample +5mL PBS	2.5×10^4	2.5×10^4	2.4×10^4
the error rate between test group 3,4,5		3%	4%	3%
6.	Same batch of PBS	no bacteria growth	no bacteria growth	no bacteria growth
7.	Same batch of neutralizer	no bacteria growth	no bacteria growth	no bacteria growth
8.	Same batch of culture medium	no bacteria growth	no bacteria growth	no bacteria growth
The test evaluating of neutralizer		Pass	Pass	Pass
Comment		The selected neutralizer complies with standard requirements in identification test for *Staphylococcus aureus*, can be used in the bactericidal test for *Staphylococcus aureus*		

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c
Test organism: *Candida Albicans* ATCC10231
Neutralizer: Neutralizer: 0.5% lecithin + 3% ethanol + 0.5% sodium thiosulfate + 5.0% Tween 80 + 91% PBS solution
Test time: 1 min

Test group		Average survival bacteria cfu/piece		
		Repeat 1	Repeat 2	Repeat 3
1.	Inoculated sample+5mL PBS	<10	<10	<10
2.	Inoculated sample+5mL neutralizer	1.2×10^2	1.6×10^2	1.0×10^2
3.	Inoculated control sample +5mL neutralizer	1.2×10^4	1.3×10^4	1.2×10^4
4.	sample +5mL neutralizer + Inoculated control sample	1.2×10^4	1.2×10^4	1.2×10^4
5.	Inoculated control sample +5mL PBS	1.3×10^4	1.3×10^4	1.2×10^4
the error rate between test group 3,4,5		4%	4%	0%
6.	Same batch of PBS	no bacteria growth	no bacteria growth	no bacteria growth
7.	Same batch of neutralizer	no bacteria growth	no bacteria growth	no bacteria growth
8.	Same batch of culture medium	no bacteria growth	no bacteria growth	no bacteria growth
The test evaluating of neutralizer		Pass	Pass	Pass
Comment		The selected neutralizer complies with standard requirements in identification test for *Candida Albicans*, can be used in the bactericidal test for *Candida Albicans*		

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2) Bactericidal activity test

Test organisms	Test time (minute)	Test repeat times	Average survival bacteria from control sample (cfu/piece)	Average survival bacteria from sample (cfu/piece)	Bactericidal rate (%)
Escherichia coli ATCC25922	1	1	1.2×10^4	<10	>99.9
		2	1.1×10^4	<10	>99.9
		3	1.1×10^4	<10	>99.9
Staphylococcus Aureus ATCC6538	1	1	1.3×10^4	<10	>99.9
		2	1.4×10^4	<10	>99.9
		3	1.3×10^4	<10	>99.9
Candida Albicans ATCC10231	1	1	1.7×10^4	<10	>99.9
		2	1.7×10^4	<10	>99.9
		3	1.8×10^4	<10	>99.9

Sample Description: sample in bag

In the territory of the People's Republic of China, the test report shall only be used for client scientific research, teaching, internal quality control, product research and development, etc… and just for client internal reference.

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