



Test Report No: SHCPCH201010001E Date: Nov 06 2020

Client name: Grange Europe Ltd / The Hygiene Company

Client address: Cox Green CM11 1PS UK

Antibacterial Disinfectant / Sanitising Wipes Sample name:

Date of manufacture/Valid MFG:10.13.20 EXP:10.13.22 Period or Batch/Exp. Date:

Manufacturer: QTFIC / The Hygiene Company

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.: SHCPCH201010001

SGS reference No.:

Date of receipt: Oct 21 2020

Testing period: Oct 21 2020 ~ Oct 28 2020

TEST(S) REQUESTED:

Selected test(s) as requested by applicant:

Evaluation of bactericidal activity

TEST METHOD(S):

EN 1276-2019 Chemical disinfectants and antiseptics-Quantitative suspension test for the evaluation of bactericidal activity of chemical disinfectants and antiseptics used in food, industrial, domestic, and institutional areas-Test method and requirements (phase 2, step 1)

TEST RESULT(S), CONCLUSION:

Please refer to the next page.

Remark:

- (1) 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.
- This test report is in Chinese and maybe translated into other languages, The Chinese version shall prevail.

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

GS CSTC Standards Technical Services (Shanghai) Co., Ltd



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T/A The Hygiene COMPANY

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CONCLUSION:

According to EN 1276-2019, the submitted sample tested under simulated clean conditions: For strain(s) of Escherichia coli, Staphylococcus aureus, Pseudomonas aeruginosa, Enterococcus hirae, the decimal log (lg) reduction in viability are > 5, comply with the requirement of EN 1276-2019 (The decimal log (lg) reduction in viable counts shall demonstrate at least 5 for general purpose disinfection)

TEST RESULT(S):

TEST ORGANISM(S): Pseudomonas aeruginosa ATCC 15442, Escherichia coli ATCC 10536, Staphylococcus aureus ATCC 6538, Enterococcus hirae ATCC 10541.

Validation and controls

validation and controls								
TEST ORGANISM(S)	Validation Suspension (Nv ₀)		Experimental conditions control (A)		Neutralizer or filtration control (B)		Method validation (C)	
	\overline{X}	116	\overline{X}	108	\overline{X}	107	\overline{X}	107
Escherichia coli ATCC 10536	30≤₹ of Nv₀≤160? Xyes □no		Tof A is≥0.5x of		ቖof B is≥0.5xቖof Nv₀? Xyes □no		For C is≥0.5x Nv₀? Xyes □no	
Staphylococcus aureus ATCC 6538	\overline{X}	94	\overline{X}	89	\overline{X}	86	\overline{X}	86
	30≤₹ of Nv₀≤160? ⊠yes □no		xof A is≥0.5x of Nv₀? Xyes □no		Xof B is≥0.5xNv₀?Xyes□no		Xof C is≥0.5xXof Nv₀? Xyes □no	
Pseudomonas aeruginosa ATCC 15442	\overline{X}	110	\overline{X}	107	\overline{X}	103	\overline{X}	104
	30≤₹ of Nv₀≤160? Xyes □no		xof A is≥0.5xxof Nv₀? Xyes □no		ቖof B is≥0.5xቖof Nv₀? ⊠yes □no		For C is≥0.5x Nv₀? Xyes □no	
Enterococcus hirae ATCC 10541	\overline{X}	83	\overline{X}	72	\overline{X}	76	\overline{X}	73
	30≤₹ of Nv₀≤160? ⊠yes □no		र्के of A is≥0.5x के of Nv₀? Xyes □no		Xof B is≥0.5x Nv₀? Xyes □no		Xof C is≥0.5x Nv₀? Xyes □no	

Test suspension and Test result

rest suspension and rest result				
	TEST ORGANISM(S)	lgN	lgN₀	7.17≤lg N₀≤7.70?
	Escherichia coli ATCC 10536	8.67	7.67	⊠yes □no
Test-suspension (N and N₀):	Staphylococcus aureus ATCC 6538	8.36	7.36	⊠yes □no
	Pseudomonas aeruginosa ATCC 15442	8.64	7.64	⊠yes □no
	Enterococcus hirae ATCC 10541	8.65	7.65	⊠yes □no

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TEST RESULT (S)	TEST ORGANISM (S)	Contact time	Lg Na	Lg R
	Escherichia coli ATCC 10536	5min	<2.15	>5.52
	Staphylococcus aureus ATCC 6538	5min	<2.15	>5.21
	Pseudomonas aeruginosa ATCC 15442	5min	<2.15	>5.49
	Enterococcus hirae ATCC 10541	5min	<2.15	>5.50

Remark:

1. Experimental conditions

Product test concentrations: 80%

Contact time: 5min

Test temperature: 20°C±1°C

incubation temperature: 36°C±1°C

Interfering substance: 0.3g/l of bovine albumin= clean conditions:

Stability and appearance of the mixture during the procedure: test mixture were homogeneous

Membrane filtration method, rising liquid: sterile water

2.Explanation:

N: Number of survivors per ml in the test fungal suspensions

 N_0 : Number of survivors per ml in the test mixtures at the beginning of the contact time (time =0)

Na: Number of survivors per ml in the test mixtures at the end of the contact time

 $R = reduction (lg R = lg N_0 - lg Na)$

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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.

*** End of Report***

TEST RESULT (S)	TEST ORGANISM (S)	Contact time	Lg Na	/ Lg R
	Escherichia coli ATCC 10536	5min	<2.15	>5.52
	Staphylococcus aureus ATCC 6538	5min	<2.15	>5.21
	Pseudomonas aeruginosa ATCC 15442	5min	<2.15	>5.49
	Enterococcus hirae ATCC 10541	5min	<2.15	>5.50

shows the sterilizing rate is more than 99.999%.

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