Test Report **No: SHCPCH201010001E** **Date: Nov 06 2020**

Client name:	Grange Europe Ltd / The Hygiene Company
Client address:	Cox Green CM11 1PS UK
Sample name:	Antibacterial Disinfectant / Sanitising Wipes
Date of manufacture/Valid Period or Batch/Exp. Date:	MFG:10.13.20 EXP:10.13.22
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.
(2) 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
SGS-CSTC Standards Technical Services (Shanghai) Co.,Ltd

检验检测专用章
Inspection & Testing Services

Authorized Signature Angela Yu

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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

TEST ORGANISM(S)	Validation Suspension (Nv_0)		Experimental conditions control (**A**)		Neutralizer or filtration control (**B**)		Method validation (**C**)	
Escherichia coli ATCC 10536	$\overline{X}$	116	$\overline{X}$	108	$\overline{X}$	107	$\overline{X}$	107
	30≤$\overline{X}$ of Nv_0≤160? ☒yes □no		$\overline{X}$ of A is≥0.5x$\overline{X}$ of Nv_0? ☒yes □no		$\overline{X}$ of B is≥0.5x$\overline{X}$ of Nv_0? ☒yes □no		$\overline{X}$ of C is≥0.5x$\overline{X}$ of Nv_0? ☒yes □no	
Staphylococcus aureus ATCC 6538	$\overline{X}$	94	$\overline{X}$	89	$\overline{X}$	86	$\overline{X}$	86
	30≤$\overline{X}$ of Nv_0≤160? ☒yes □no		$\overline{X}$ of A is≥0.5x$\overline{X}$ of Nv_0? ☒yes □no		$\overline{X}$ of B is≥0.5x$\overline{X}$ of Nv_0? ☒yes □no		$\overline{X}$ of C is≥0.5x$\overline{X}$ of Nv_0? ☒yes □no	
Pseudomonas aeruginosa ATCC 15442	$\overline{X}$	110	$\overline{X}$	107	$\overline{X}$	103	$\overline{X}$	104
	30≤$\overline{X}$ of Nv_0≤160? ☒yes □no		$\overline{X}$ of A is≥0.5x$\overline{X}$ of Nv_0? ☒yes □no		$\overline{X}$ of B is≥0.5x$\overline{X}$ of Nv_0? ☒yes □no		$\overline{X}$ of C is≥0.5x$\overline{X}$ of Nv_0? ☒yes □no	
Enterococcus hirae ATCC 10541	$\overline{X}$	83	$\overline{X}$	72	$\overline{X}$	76	$\overline{X}$	73
	30≤$\overline{X}$ of Nv_0≤160? ☒yes □no		$\overline{X}$ of A is≥0.5x$\overline{X}$ of Nv_0? ☒yes □no		$\overline{X}$ of B is≥0.5x$\overline{X}$ of Nv_0? ☒yes □no		$\overline{X}$ of C is≥0.5x$\overline{X}$ of Nv_0? ☒yes □no	

Test suspension and Test result

	TEST ORGANISM(S)	lgN	lgN_0	7.17≤lg N_0≤7.70?
Test-suspension (N and N_0):	*Escherichia coli* ATCC 10536	8.67	7.67	☒**yes** □**no**
	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 ORGANISM (S)	Contact time	**Lg Na**	**Lg R**
TEST RESULT (S)	*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℃±1℃

incubation temperature: 36℃±1℃

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)

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 ORGANISM (S)	Contact time	**Lg Na**	**Lg R**
TEST RESULT (S)	*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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