

Test Report Number: GZHH00366861

Date:

Jun 18, 2020

Applicant: JoCo Sales & Marketing Inc.

12100 Blue Valley Parkway, Overland Park,

Kansas 66213

Sample Description:

One (1) style of submitted sample said to be :

Item Name : GSD ANTIBACTERIAL 80 WET WIPES.

Item Quantity : 5.

Date Sample Received : Jun 04, 2020



Ingredients List:

No.	CAS#	INGREDIENTS	WEIGHT %	
1	8001-54-5	Benzalkonium Chloride	0.10%	
2	123-03-5	HexadecylPyridinium Chloride	0.05%	
3	104-29-0	Chlorphenesin	0.05%	
4	57-55-6	Propanediol	0.20%	
5	1406-18-4	Vitamin E	0.05%	
6	85507-69-3	Aloe Vera Extract	0.10%	
7	107-43-7	Amino acid moisturizer	0.10%	
8	77-92-9	Citric acid	0.02%	
9	56-81-5	Glycerol	0.50%	
10	1968/4/2	Sodium citrate	0.02%	
11	8001-54-5	Water	98.81%	

Tests conducted:

As requested by the applicant, refer to attached page(s) for details.

Intertek GM Testing Service Zhuhai Co. Ltd.

Sarah Xu Asst. Manager Healthcare and F

Healthcare and Beauty Products



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Tests Conducted

1 Quantitative suspension test for evaluation of bactericidal activity of chemical disinfectants and antiseptics

With reference to BS EN 1276:2019

Dilution recommended for use: No dilution Product test concentration: 80% v/v

Active ingredient in product: Benzalkonium chloride Appearance: Transparent colorless liquid

Contact time: 60s±5s Test temperature: (20±1) °C

Interfering substance: 0.3g/L bovine albumin (clean condition)

Inhibition method:

Neutralizing solution:

Incubation:

Agar medium:

Dilution-neutralization

D/E neutralizing broth

(37±1) °C, 48 hours

Trypticase Soy Agar

Escherichia coli K12 (NCTC 10538)

Test culture:

Pseudomonas aeruginosa (ATCC 15442)
Staphylococcus aureus (ATCC 6538)
Enterococcus hirae (ATCC 10541)

Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2)

Controls & validation:

<u>Test</u> microorganism	Validation suspension (cfu/ml) Nv Nv₀=1/10Nv Criteria: 300 ≤ Nv ≤ 1600	Experimental conditions control (cfu/ml) A Criteria: A ≥ 0.5 Nv₀	Neutralizer control (cfu/ml) B Criteria: B ≥0.5 Nv₀	Method validation (cfu/ml) C Criteria: C ≥0.5 Nv₀	<u>Validity</u>
Escherichia coli K12 (NCTC 10538)	950	91	88	97	Valid
Pseudomonas aeruginosa (ATCC 15442)	800	75	78	86	Valid
Staphylococcus aureus (ATCC 6538)	1000	88	89	96	Valid
Enterococcus hirae (ATCC 10541)	1000	78	85	97	Valid
Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2)	900	95	96	90	Valid

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Result:

<u>Test</u> microorganism	Initial suspension(N) (cfu/ml) N₀=1/10N Criteria: 1.5x10 ⁸ ≤N≤5.0x10 ⁸	<u>F</u> inal count (<u>cfu/ml)</u> <u>Na</u>	R(Log ₁₀ Reduction) =Log N ₀ -Log Na	%Reduction
Escherichia coli K12 (NCTC 10538)	4.1x10 ⁸	<140	>5.0	>99.999
Pseudomonas aeruginosa (ATCC 15442)	1.8 x10 ⁸	4.3 x10 ³	3.6	99.976
Staphylococcus aureus (ATCC 6538)	4.2 x10 ⁸	<140	>5.0	>99.999
Enterococcus hirae (ATCC 10541)	2.1 x10 ⁸	<140	>5.0	>99.999
Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2)	4.8 x10 ⁸	4.1 x10 ³	>5.0	>99.986

Remark:

Ν Test suspension, Number of cells per ml in bacterial suspensions.

(N₀=1/10N), Number of cells per ml in the test mixtures at the beginning of the contact N_0 = time (time 0).

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

Νv Validation suspension, Number of cells per ml in bacterial suspensions.

 $(Nv_0 = 1/10Nv)$, Number of cells per ml in the test mixtures at the beginning of the contact Nv_0 time (time 0).

Represent the different control test mixtures, A(experimental conditions A,B,C control), B(Neutralizer control), C(Method validation)

Sample received condition: sample in unopened original

package. Date sample received: Jun 04, 2020 Testing period: Jun 04, 2020 to Jun 17, 2020

End of report

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