

Test Report

Number: GZHJ340066

Applicant: TV Products international Ltd
Unit 2708, 27 Floor, Greenfield Tower, Concoroia Plaza,
No.1 Science Museum Road, Tsimshatsui, Kowloon,
Hong Kong.

Date: Nov 01, 2019

Attn: Raymond

Sample Description:

One (1) piece of submitted sample said to be :
Item Name : **H2O e3 - S-water.**
Item Batch : **Sept-20-2019 of Preparation date.**
Item Description : (pH=8.97, 208.6ppm) at 6 mins electrolysis process, 450ml tap water,
3 grams of salt.
Date Sample Received : Sep 20, 2019



Tests conducted:

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

Intertek GM Testing Service Zhuhai Co. Ltd.



Joanne Li
Deputy General Manager
Healthcare and Beauty Products



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1. Antibacterial Efficacy Test

As per applicant's requirement , with reference to Test methods for evaluating daily chemical products in antibacterial and bacteriostatic efficacy part 7.2 , to evaluate test sample as below.

Test Microorganism	Contact time / min	Contact concentration	Antibacterial rate (%)	Evaluation standard (Antibacterial rate(%))
				≥90%
Escherichiacoli. (ATCC 25922)	1	2.47×10^4 CFU/mL	99.96%	tested sample have antibacterial activit
Salmonella (ATCC14028)	1	3.15×10^4 CFU/mL	99.97%	

Remark: Test Neutralizer: D/E Neutralizing Broth

Conclusion:

As per the test result: The tested sample have antibacterial activity for Escherichiacoli. and Salmonella.

Sample received date: Oct 08, 2019

Tested period: Oct 08, 2019 to Oct 21, 2019

End of report

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Tests Conducted

APPENDIX: TESTED DETAIL PROCESS REFERENCE

7.2.4 Sterilization Test Procedures

- a) Dilute the test bacterial suspension (7.2.2.f) using PBS solution. Required concentration: Take 0.1mL diluent and add it into 5.0 mL control solution (PBS), and the number of recovered bacteria should be 1×10^4 cfu/mL~ 9×10^4 cfu/mL;
- b) Dilute the test sample to the specified concentration using the sterile standard hard water;
- c) Pipette 5.0mL test sample stock solution or its diluent into a sterile test tube, and keep it thermostatic at 20°C(30°C soap products) for 5min;
- d) Pipette 0.1ml test bacterial solution, add it into the test tube containing 5.0mL sample, mix them quickly and evenly, and start timing immediately;
- e) When the set time is up, take 0.5mL mixture of the test bacteria and sample, add it into 4.5mL sterilized neutralizing agent, and mix them evenly;
- f) After 10min neutralization, pipette 1mL sample solution (or appropriate diluent of 2 to 3 dilution degrees), put it in a sterilized plate and inoculate each sample solution or diluent into two sterilized plates. Then, pour 15mL nutrient agar medium (bacteria) or Sabouraud's agar medium (Candida albicans) cooled to 40~45°C, turn the plate to mix them evenly. After the agar gets solidified, turn over the plate, cultivate it at (35±2) °C for 48h (bacteria) or 72h (Candida albicans), and then, count the number of the living bacteria colonies;
- g) Use PBS as the substitute of the test sample and repeat the above procedures with PBS as the control sample[a1];
- h) Repeat the test 3 times and calculate the average of the results.

7.2.5 Calculation formula:

The sterilizing rate is calculated by the formula (1).

$$\text{Sterilizing rate (\%)} = \frac{I-II}{I} \times 100 \dots\dots\dots(1)$$

Where,

I--Averaged number of colonies in the control sample

II--Averaged number of colonies in the test sample

The result should be kept as an integer.

