**VIETNAM TEXTILE RESEARCH INSTITUTE., JSC (VTRI)**

**TEXTILE TESTING CENTRE (TTC)**

**TEST REPORT**

NO.: 246-24-03-20/TNPV-1

April 5th, 2020

Applicant: Thao Minh Produce Trade Service Co., ltd

Address: 154/18 Vo Thi Sau Street, Ward 08, District 03, Ho Chi Minh City

Date of received sample: March 24th. 2020 Testing date: From March 25th, 2020 to April 4th, 2020

Samples were provided by applicant.

Sample Description: Three-layer anti-microbial cloth masks/ TMC03: Outer layer, 2nd layer and 3rd layer.

Result:

|  |  |  |  |
| --- | --- | --- | --- |
| No. | Requirement | Method | Result |
| 1 | Anti-microbial ability after **ten wash cycles** – Bacteria attenuation rate (%) | AATCC 100-2012 | Escherichia coli ATCC 25922 | 0 hour (B), CFU/ml | 1,8 x 105 |
| 24 hours (A), CFU/ml | 1,5 x 103 |
| **% attenuation (R)** | **99,2** |
| Staphylococcus aureus ATCC 6538 | 0 hour (B), CFU/ml | 1,8 x 105 |
| 24 hours (A), CFU/ml | 1,4 x 103 |
| **% attenuation (R)** | **99,2** |

**Noted:**

* Microbe growing temperature: 37°C; Nutritional environment: agar jelly
* CFU/ml: Bacterial units per 1ml.
* %R = 100 (B-A)/B

+ A: The number of remain bacteria after 24 hours.

+ B: The number of bacteria at the beginning (0 hour)

Washing the test sample at standard AATCC 135-2018; Washing machine Whirlpool; Regular washing cycle; Washing at 41°C; 1,8 kg of dry washing load, straight hanging to dry.

Authorized by

chairman of the board

Director of Testing center Annealing

Dr. Bui Thi Thai Nam