

Bacterial Filtration Efficiency (BFE) in ASTM F2101

Proven that OOH SHIELD technology can effectively filter bacteria (>99%)



TEST REPORT

Applicant: Curie Limited
Room C, 23/F,
Tsuen Tung Factory Building,
38-40 Chai Wan Kok Street,
Tsuen Wan,
New Territories,
Hong Kong

Report number: IRITS202005150001

Date: 15 May 2020

Attn.: Aldrin Or

Sample Description as Declared:

No. of Sample: TWO (2) pieces of received material in zipper bag packaging
Sample Description: Curie Ultrahigh- Efficiency Viral Filter
Colour: White
Date Received: 8 May 2020
Testing Period: 9 – 14 May 2020
Tests Conducted: As requested by the Applicant, with the details as follow:

Testing Summary: The sample being tested was conditioned for a minimum of 4 hour at 21 ± 5 °C and relative humidity of 65 ± 5 %. The bacterial filtration efficiency (BFE) test was performed by applying a spray of challenge bacterium *Staphylococcus aureus* in peptone water (approximately 2,200 colony forming units per spray) using a trigger sprayer. The sprayed aerosol was then drawn through the material being tested following by a tryptic soy agar plate under vacuum (flow rate: 100 Litres per minute). Number of *Staphylococcus aureus* colonies formed on the tryptic soy agar plate were counted after incubated at 37 ± 2 °C for 48 ± 4 hr. The BFE test procedure was modified from ASTM F2101: 2019.

For and on behalf of
Institute for Research in Innovative Technology & Sustainability
The Open University of Hong Kong

Dr. Eric Tung-po Sze
Director



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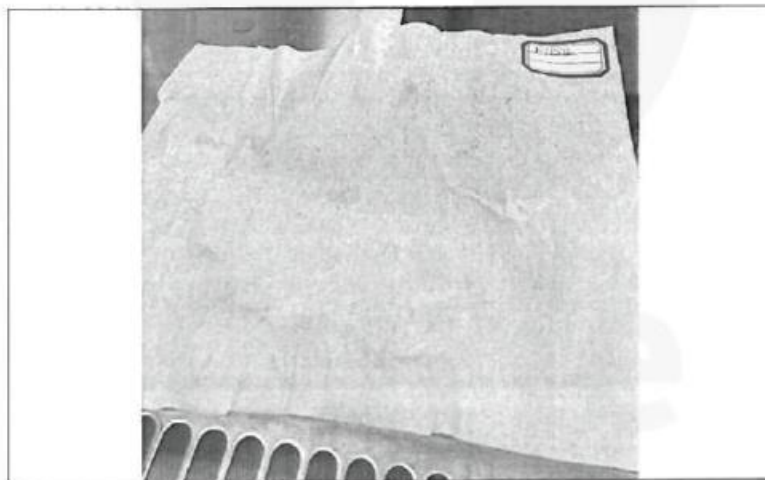
Results:

Test Sample Number

Test Sample Number	Bacterium Colonies Formed
#1	N.D. ^a
#2	N.D. ^a
Negative Control	N.D. ^a

^a None Detected (N.D.) – There were no detected bacterium colony of *Staphylococcus aureus* found.

Sample Photo:



<End of Test Report>