



ADVANCE VI TECH (MALAYSIA) SDN. BHD. (895110-W)

No 12, Solok Raja Lumu, Pandamaran,

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LABORATORY TEST REPORT

REPORT DATE : 19th-June -2020
SUBJECT : Measurement of bacterial repellent properties on
BACTOSTAT™ treated PP HP3028D and untreated PP H530
TESTING METHOD : Modified International Standard ISO 22196
TEST CONDUCTED : Malaysia Laboratory
BY

Measurement of bacterial repellent properties

Test Method: **Modified International Standard ISO 22196**

Incubation temperature: 37°C

Incubation period: 48 hours

Agar medium: Plate Count Agar

Test Culture: *Staphylococcus aureus* ,

Treated Sample: BACTOSTAT™ PP HP3028D

Control Sample: SKYLUX™ PP H530

Test Condition: 2ml of bacterial inoculums was added onto surface of the test specimen samples.

Bacterial inoculum was incubated for 24 hours on surface of the test specimen samples and washed off by saline water. Remaining bacteria on surface of the test specimen samples will be transfer to agar plate by using swab method.

Growth of bacteria was recorded after another 24 hours.



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Result:

Treated Sample	BACTOSTAT™ PP HP3028D
Untreated Sample	SKYLUX™ PP H530
OD Value	1.607
Untreated *, 24hrs	3×10^8
Treated 24hrs	4×10^6
Bacterial Repellecny Percentage	99.99%

Formula of repellency:

$\{1 - (\text{treated sample's bacteria conc after 24 hrs} / \text{untreated sample's bacteria conc after 24hrs})\}$
 $\times 100\%$

Signed and on behalf of AVI Bio-Lab

Lai K

L.K. Moh, Technical Manager