



Shirley
Technologies
Limited

Confidential Report

Our Ref: 52044

Shirley Technologies Limited. Registered Office :
Wira House, West Park Ring Road, Leeds, LS16 6QL.
A company registered in England & Wales with company number 04669651.
VAT Number GB 816764800.
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Our laboratories are accredited to EN ISO/IEC 17025





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Shirley Technologies Limited
Unit 11, Westpoint Enterprise Park
Clarence Avenue, Trafford Park
Manchester, M17 1QS
England

Tel: +44 (0)161 869 1610
Fax: +44 (0)161 872 6492
Web: <http://www.shirleytech.com>
Email: info@shirleytech.co.uk

29th March 2019

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Our Ref: 52044
Your Ref: 83A03220
Client: Camira Fabrics Ltd

Address: Camira Fabrics Ltd
Meltham Mills
Meltham
West Yorkshire
HD9 4AY

Job Title: Antibacterial testing

Client's Order Ref:

Date of Receipt: 21st March 2019

Description of Sample(s): One sample labelled:
Halcyon Blossom / 387102 / Petal

The sample was received in good condition

Work Requested: AATCC 147: 2016

Note: This report relates only to the sample submitted and as described in this report.

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INTRODUCTION

One sample was received as labelled as above, for testing to AATCC 147: 2016. The client requested testing the face only. Testing commenced on the 26th March 2019.

METHODOLOGY: AATCC 147: 2016

An inoculum of *S. aureus* ATCC 6538 was prepared by transferring 1 ± 0.1 ml of a 24 hour nutrient broth culture into 9 ± 0.1 ml of sterile distilled water.

Using a 4mm inoculating loop, one loopful of the diluted inoculum was transferred to the surface of a sterile nutrient agar plate by making five 60 mm long parallel streaks spaced 10 mm apart without refilling the loop.

The non-sterile test specimen was then placed transversely across the five inoculum streaks. A sterile stainless-steel weight was then placed on top of the specimen to ensure intimate contact with the agar surface; this is as the sample curled on initial testing and did not make complete contact with the agar. The sample was tested in triplicate.

The replicates were then incubated at 37 ± 2 °C for 24 hours and repeated with *K.pneumoniae* ATCC 4352.

The zone of inhibition around the specimen was determined according to the method stated in Section 11 in AATCC Test Method 147:2016.

Controls were performed ensuring that both bacteria did grow adequately.

RESULTS

The replicate samples were examined for any zone of inhibition and if there was any growth under the sample.

The following key is used in the tables below.

W = Width of clear zone of inhibition.

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RESULTS: AATCC 147: 2016

Halcyon Blossom / 387102 / Petal

***S. aureus* ATCC 6538 – Face of sample – purple**

Specimen	Average W /cm	Growth under sample
1	0.41	No growth
2	0.75	No growth
3	0.74	No growth

***K.pneumoniae* ATCC 4352 – Face of sample – purple**

Specimen	Average W /cm	Growth under sample
1	0.54	No growth
2	0.39	No growth
3	0.58	No growth

The criterion for passing the test must be agreed upon by the interested parties. The standard states that to constitute acceptable antibacterial activity, there must be no bacterial colonies directly under the sample in the contact area.

There was no growth under the samples and there were zones of inhibition against *S.aureus* ATCC 6538 and *K.pneumoniae* ATCC 4352.

There was no contamination of the sample as this was verified with incubating under the same test conditions, without the test bacteria. The control samples performed as expected and proved the validity of the testing.

Reported by:

Zohaib Aslam
Laboratory Technician

Countersigned by:

Nibela Asghar
Section Leader

Enquiries concerning this report should be addressed to Customer Services.

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