



Shirley  
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Limited

## Confidential Report

**Our Ref: 50166**

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Wira House, West Park Ring Road, Leeds, LS16 6QL.  
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Our laboratories are accredited to EN ISO/IEC 17025



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15<sup>th</sup> October 2018

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Our Ref: 50166  
Your Ref: 83A00605

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: 18<sup>th</sup> September 2018

Description of Sample(s): Four samples labelled:

- 1) Blossom/Petal/387102
- 2) Poplar/Berry/359602
- 3) Cedar/Lavendar/369243
- 4) Aspen/Petal/311256

Work Requested: AATCC 147: 2016

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## **INTRODUCTION**

Four samples were received as labelled as above, for testing to AATCC 147: 2016. The client requested testing the face only. Testing commenced on the 9<sup>th</sup> October 2018.

## **METHODOLOGY: AATCC 147: 2016**

An inoculum of *S. aureus* ATCC 6538 was prepared by transferring  $1 \pm 0.1$  ml of a 24 hour nutrient broth culture into  $9 \pm 0.1$  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 glass plate 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  $37 \pm 2$  °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.

T = total diameter of test specimen.

D = diameter of the test specimen (in cm)

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**RESULTS: AATCC 147: 2016**

**S. aureus ATCC 6538 – Face of sample labelled Blossom / Petal / 387102**

Specimen	Average W /cm	Growth under sample
1	0.65	No growth
2	0.61	No growth
3	0.53	No growth

**K.pneumoniae ATCC 4352 – Face of sample labelled Blossom / Petal / 387102**

Specimen	Average W /cm	Growth under sample
1	0.46	No growth
2	0.56	No growth
3	0.51	No growth

**S. aureus ATCC 6538 – Face of sample labelled Poplar / Berry / 359602**

Specimen	Average W /cm	Growth under sample
1	0.41	No growth
2	0.56	No growth
3	0.56	No growth

**K.pneumoniae ATCC 4352 – Face of sample labelled Poplar / Berry / 359602**

Specimen	Average W /cm	Growth under sample
1	0.36	No growth
2	0.62	No growth
3	0.66	No growth

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**S. aureus ATCC 6538 – Face of sample labelled Cedar / Lavender / 369243**

Specimen	Average W /cm	Growth under sample
1	0.24	No growth
2	0.33	No growth
3	0.48	No growth

**K.pneumoniae ATCC 4352 – Face of sample labelled Cedar / lavender / 369243**

Specimen	Average W /cm	Growth under sample
1	0.20	No growth
2	0.33	No growth
3	0.66	No growth

**S. aureus ATCC 6538 – Face of sample labelled Aspen / Petal / 311256**

Specimen	Average W /cm	Growth under sample
1	0.47	No growth
2	0.27	No growth
3	0.51	No growth

**K.pneumoniae ATCC 4352 – Face of sample labelled Aspen / Petal / 311256**

Specimen	Average W /cm	Growth under sample
1	0.61	No growth
2	0.52	No growth
3	0.37	No growth

W = Width of clear zone of inhibition.  
 T = total diameter of test specimen.  
 D = diameter of the test specimen (in cm)

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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.

All four samples had zones of inhibition and no growth under the samples.

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  
Operational Head

Enquiries concerning this report should be addressed to Customer Services.

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