

Date: 10/01/25
Our Ref: 76666
Your Ref: 83A30662
Client: Camira Fabrics
Limited
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Client: Camira Fabrics Limited

Address: The Watermill
Wheatley Park
Mirfield
West Yorkshire
WF14 8HE

Job Title: Antibacterial testing

Clients Order Ref: 83A30662

Date of Receipt: 13/12/24

Description of sample(s): One sample was received labelled as:

1.- Vita. Colour – Porcelain (batch 557681)

The sample was received in good condition.

Work Requested: AATCC 147:2011 (2016)e

This report relates only to the items tested. Enquiries concerning this report should be address to Customer Services.



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Introduction

One sample was received labelled as above, for testing to AATCC 147: 2011 (2016)e. The client requested testing the face only. Testing commenced on the 07/01/2025.

Methodology: AATCC 147:2011 (2016)e

An inoculum of *S. aureus* ATCC 6538 (or equivalent) 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. This was performed in triplicate.

The replicates was then incubated at 37 ± 2 °C for 24 hours and repeated with *K.pneumoniae* ATCC 4352 (or equivalent).

The zone of inhibition around the specimen was determined according to the method stated in Clause 11 of AATCC Test Method 147:2011 (2016)e.

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.

Growth = Growth in all streaks

No Growth = No growth in any streak

Growth/No Growth = Growth in one or more streaks but not in all five streaks



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S.aureus ATCC 6538

Sample: Vita. Colour – Porcelain (batch 557681)	Replicate	Average W (cm)	Growth under sample
Face	1	0.61	No Growth
	2	0.66	No Growth
	3	0.64	No Growth

K.pneumoniae ATCC 4352

Sample: Vita. Colour – Porcelain (batch 557681)	Replicate	Average W (cm)	Growth under sample
Face	1	0.78	No Growth
	2	0.80	No Growth
	3	0.76	No Growth

Comments and Conclusions

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 test.

The samples showed curling at the edges. Areas where the sample had been in direct contact with the agar prior to curling showed reduced bacterial growth.

Clause 10.2 of AATCC 147 2011(2016e) 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.

Estimated uncertainty of measurement where k= 2 (approximately 95% confidence level) = ± 5.8%, ± 1.4mm.

Reported by: 

Catherine Lilley
 Laboratory Technician

Countersigned by: 

Cristina Alepuz
 Section Leader

Where required to make a judgement to any pass/fail criteria an estimation of uncertainty of measurement has been taken into account. Under our Policy we have used a non-binary decision rule. See our decision rules Policy (<http://www.bttg.co.uk/decision-rules-policy>) for further information.

