

Test Report

Report No : EN-9124
Date : 16/01/2021

VEERA TANNERIES PRIVATE LIMITED

266, Innawadi, Shree Sunder Vinayak Mandir Marg,
Dharavi, Mumbai-400 017

The following sample were submitted and identified on behalf of buyer as :

Sample submitted and identified by supplier as :

Col. Black (Sheep W/W Glove Leather)

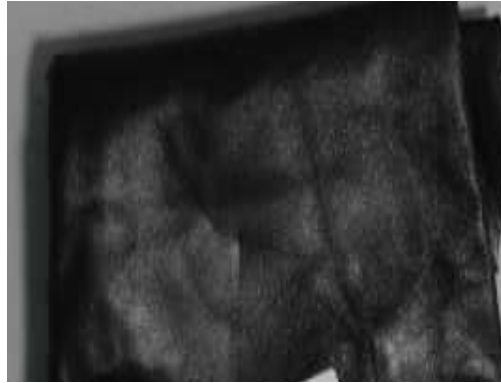
Sample Ref. : Sheep W/W Glove Leather
Reference : NA
Sample Qty. : 1 Leather
Condition of sample by delivery : Good
Sample Receiving Date : 03/01/2021
Test Completion Date : 15/01/2021

Test Performed : As per client requirement

Signed for and on behalf of
ECOLOGICAL LABORATORIES PVT. LTD.



Jyotsna Bhojane (Eco)
Authorized Signatory



- 1) Sample not drawn by Ecological Laboratories
- 2) The results shown in this report refer only to the sample tested.
- 3) This test report shall not be reproduced except in full, without written approval of this laboratory.

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1)

I. Discipline: Biological testing
Sub Group: Plastics, Ceramics, Metal products

I] Name of the Test : ISO 22196:2011
Measurement of Antibacterial Activity on Plastics and other Non-porous Surfaces

II] Test Organisms : *Staphylococcus aureus* ATCC 6538P
Escherichia coli ATCC 8739

III] Additional Test Information:

- a. Sample size: Square of 50 mm \pm 2 mm
- b. Type, Thickness of sample: Leather Sample , 1 mm
- c. Film size: Square of 40 mm \pm 2 mm
- d. Type, Thickness of Film: Plastic 25 GSM
- e. Volume of test inoculum used: 0.4 ml
- f. Cleaning method of sample: 70% ethanol in water
- g. Media used: Plate Count Agar, SCDLP Broth, Phosphate-buffered physiological saline
- h. Incubation conditions: 37°C for 24 hrs.

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I] Test Results:

1. Sheep N. N 4 Love Black

Test Bacteria	<i>Staphylococcus aureus</i> ATCC 6538P	<i>Escherichia coli</i> ATCC 8739
Concentration of test inoculum (CFU/ml)	2.05×10^5	2.10×10^5
Untreated sample at 0 h (U_0) (common logarithm)	4.03	4.06
Untreated sample after 24 h (U_t) (common logarithm)	3.89	3.83
Treated sample after 24 h (A_t) (common logarithm)	-0.20	-0.20
Antibacterial Activity $R = U_t - A_t$	4.09	4.03
Microbial Kill (% Reduction)	99.99 %	99.99 %

Note: The product is determined that it has Antibacterial effectiveness when the Antibacterial value i.e. R value is 2.0 or more.

End of Report

