



PRODUCT PERFORMANCE TESTING LABORATORY

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September 22, 2021

Italcer
Attn: Elena Vandelli
Via Emilia Ovest 53/a
Rubiera, 42048
ITALY

Dear Ms. Vandelli,

Tile Council of North America has tested the samples you submitted. Test report TCNA-0002-21 – Survivability with Non-treated is enclosed. If you have any questions or concerns, please contact us.

Best Regards,

TILE COUNCIL OF NORTH AMERICA, INC.

Dr. Jyothi Rangineni
Research Scientist
Enclosures



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TEST REQUESTED BY: Italcer
Attn: Elena Vandelli
Via Emilia Ovest 53/a
Rubiera, 42048
ITALY

TEST SUBJECT MATERIAL: Identified by client as: “**Non-treated**”

TEST DATE: 7/10/2021 - 8/17/2021

TEST PROCEDURE:

Customized survival test method using Human Coronavirus 229E. A known number of viruses were introduced onto the surface of the test sample and air dried. The viruses were then recovered from 0 hours to 7 days to test for survivability.

TEST VIRUSES AND CELL LINES:

Virus	Cell line
Human Coronavirus 229E ATCC VR-740	MRC-5 ATCC CCL-171

ASTM Guidance on SARS-CoV-2 Surrogate Selection:

Surrogates of SARS-CoV-2 used in this testing are Human Coronavirus 229E and OC43. Surrogates were selected based on guidance provided by ASTM E35 Committee for Pesticides, Antimicrobials, and Alternative Control Agents. Further information on surrogate selection guidance provided by ASTM can be found here –

https://www.astm.org/COMMIT/GuidanceCOVID19SurrogateSel_April242020press.pdf

TEST CONDITIONS:

Test sample size: 50 mm x 50 mm
Volume of test suspension applied on test sample: 0.15 mL
Infectivity titer of virus: 10^6 TCID₅₀/mL
Exposure time: 0 hours to 7 days
Environmental conditions for UV exposure: Temperature at 25°C ± 1
RH ≥ 90%



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Test Results: Results of UV irradiation test performed on “Non-Treated” and glass

Time of exposure	Survival on Glass	Survival on “Non-treated”
0 hr	+	+
24 hr	+	+
2 days	+	+
3 days	+	+
4 days	+	+
5 days	+	+
6 days	+	+
7 days	-	-

+ means that the virus was still alive

- means the virus did not survive



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DISCLAIMER AND LIMITATION OF LIABILITY

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9/22/2021

Dr. Jyothi Rangineni
Research Scientist