



PRODUCT PERFORMANCE TESTING LABORATORY

100 Clemson Research Blvd., Anderson, SC 29625

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Email testing@tcnatile.com Web www.TCNAtile.com

December 28, 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-0001-21 – Influenza Antiviral 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: “**Product name:
Gold - Royal Stone collection - Italcer Group**”

TEST DATE: 11/29/2021 - 12/28/2021

TEST PROCEDURE:
*ISO 18061:2014(E): Fine Ceramics (Advanced Ceramics, Advanced Technical Ceramics) —
Determination of antiviral activity of semiconducting photocatalytic materials.*
Test method was modified to test with Influenza A virus (H3N2).

TEST CONDITIONS:

Test sample size: 50 mm x 50 mm

Test viruses and cell lines:

Virus	Cell line
Influenza A virus (H3N2) ATCC VR-1679	MDCK ATCC CCL-34

Volume of test suspension applied on
test sample: 0.15 mL
Infectivity titer of virus: 10^6 TCID₅₀/mL
Exposure conditions: UV irradiation and Dark conditions
Exposure time: 4 hours
Environmental conditions for UV exposure: Temperature at 25°C ± 1
RH ≥ 90%
UV exposure intensity: 0.25 mW/cm²
UV lamp: Interlight F40 T10/BLB 130V 40W
UV light radiometer: Mannix UV340



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Test Results: Results of UV irradiation test performed on **“Gold - Royal Stone collection - Italcer Group”**

ISO 18061 using Influenza A virus (H3N2) on Gold - Royal Stone collection - Italcer Group					
Sample	Infectivity Titer	Exposure Conditions	Exposure Time	Reduction under UV exposure on non-treated*	Reduction under UV exposure on Gold - Royal Stone collection - Italcer Group *
“Gold - Royal Stone collection - Italcer Group”	10 ⁶ TCID ₅₀ /mL	UV Irradiation at 0.25 mW/cm ²	4 hours	No reduction	99%

Test Results: Results of Dark condition test performed on **“Gold - Royal Stone collection - Italcer Group”**

ISO 18061 using Influenza A virus (H3N2) on Gold - Royal Stone collection - Italcer Group					
Sample	Infectivity Titer	Exposure Conditions	Exposure Time	Reduction under Dark conditions on non-treated*	Reduction under Dark conditions on Gold - Royal Stone collection - Italcer Group *
“Gold - Royal Stone collection - Italcer Group”	10 ⁶ TCID ₅₀ /mL	Dark (no UV light)	4 hours	No reduction	90%



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DISCLAIMER AND LIMITATION OF LIABILITY

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12/28/2021

Dr. Jyothi Rangineni
Research Scientist