



**PRODUCT PERFORMANCE TESTING LABORATORY**

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March 31, 2022

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-0079-22 – Influenza Antiviral Timeless Honey 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



**TCNA TEST REPORT NUMBER:**

**TCNA-0079-22**

**PAGE: 1 OF 3**

**TEST REQUESTED BY:**

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

**TEST SUBJECT MATERIAL:**

Identified by client as: **“TIMELESS HONEY”**

**TEST DATE:**

2/1/2022 - 3/24/2022

**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:

$10^6$  TCID<sub>50</sub>/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/cm<sup>2</sup>

UV lamp:

Interlight F40 T10/BLB 130V 40W

UV light radiometer:

Mannix UV340



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**PAGE: 2 OF 3**

**Test Results:** Results of UV irradiation test performed on “TIMELESS HONEY”

<b>ISO 18061 using Influenza A virus (H3N2) on TIMELESS HONEY</b>					
Sample	Infectivity Titer	Exposure Conditions	Exposure Time	Reduction under UV exposure on non-treated*	Reduction under UV exposure on *
“TIMELESS HONEY”	10 <sup>6</sup> TCID50/mL	UV Irradiation at 0.25 mW/cm <sup>2</sup>	4 hours	No reduction	99.9%
* Reduction calculated as percentage per the initial infectivity titer inoculated on the surface of the tile sample					

**Test Results:** Results of Dark condition test performed on “TIMELESS HONEY”

<b>ISO 18061 using Influenza A virus (H3N2) on TIMELESS HONEY</b>					
Sample	Infectivity Titer	Exposure Conditions	Exposure Time	Reduction under Dark conditions on non-treated*	Reduction under Dark conditions on *
“TIMELESS HONEY”	10 <sup>6</sup> TCID50/mL	Dark (no UV light)	4 hours	No reduction	90.0%
* Reduction calculated as percentage per the initial infectivity titer inoculated on the surface of the tile sample					



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**DISCLAIMER AND LIMITATION OF LIABILITY**

**PAGE: 3 OF 3**

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3/31/2022

Dr. Jyothi Rangineni  
Research Scientist