

Test Report N. 2587 /EL MI21

Spett.le
IRIS CERAMICA GROUP SPA
VIA CANALINO 16
41121 MODENA (MO)

Modena 29/06/2021

Receipt N.: 2.587/EL MI	Date of receipt : 12/05/21	Analysis start date: 21/06/21	Analysis end date: 28/06/21
Material:	Ceramics materials		
Product:	Ceramic tile		
Sample:	CALACATTA SL ACTIVE 2.0 - 300 x 150 cm - 6mm - G32 Sample code not-treated specimens: CALCATTA TQ -treated specimens: 50 x 50 mm square, 6 mm thickness; -not-treated specimens: 50 x 50 mm square, 6 mm thickness; -all specimens are rinsed with distilled water and autoclaved at 121°C for 30 minutes before the analysis; -cover film : polypropylene film 40 x 40 mm square - 0.10 mm thickness -volume of test inoculum : 150 ul -test bacteria : Escherichia coli ATCC 8739 -deviation from test method: contact time 30 minutes at 37°C		
Sampling:	made by customer		
Date of sampling:	12/05/21		

Test	Method	UM	Result
Antibacterial activity E. coli ATCC 8739*	ISO 22196:2011		
<i>N. bacteria inoculated*</i>		Log (cells/ml)	6,20
<i>Average number of bacteria non treated specimen after inoculation t=0h U0*</i>		Log(cells/cm2)	4,20
<i>Average number of bacteria non treated specimen after inoc*</i>		Log(cells/cm2)	4,20
<i>Average number of bacteria non treated specimen after 24h Ut*</i>		Log(cells/cm2)	4,19
<i>Average number of bacteria treated specimen after 24h At*</i>		Log(cells/cm2)	1,02
<i>Antibacterial activity R*</i>		Log10	3,2

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Test	Method	UM	Result
Antibacterial activity R%*		%	99,93

NOTE:

the test assesses the survival of bacteria type Escherichia coli ATCC 8739 on the surface of CALACATTA SL ACTIVE 2.0 - 300 x 150 cm - 6 mm at 37°C for 30 mins. Under test condition specified in the description sample, the bacterial reduction is equal to 99.93%

LABORATORY MANAGER

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U: expanded uncertainty associated with single measurement (P = 95 % - K = 2) - LD: Detection limit (the lowest concentration of analyte detectable) - LQ: Limit of Quantification (the lowest concentration of analyte detected with acceptable precision and accuracy) - R% Recovery % . U - R% - LQ - LD are indicated if required by the Customer.

PNN: internal method - ["] Subcontracted test - If the test report is digitally signed, the integrity of the document can be confirmed by checking the validity of the digital signature within the file.

Reference standards for microbiological food : UNI EN ISO 7218:2013/Cor.1:2014 (counting in single dish and two consecutive dilutions) the reported expanded measurement uncertainty has been estimated in accordance with ISO 19036:2019 and is based on a standard uncertainty multiplied by a coverage factor of K=2, providing a level of confidence of approximately 95%; coagulase-positive staphylococci are counted at 37°C; presuntive Bacillus cereus are counted at 30°C. Waters : ISO 8199:2018; (results expressed with < 4ufc/ml and < 40ufc / g indicate that microorganisms are present but less than the value expressed ; for values between 4-10 cfu / ml , 3-10 ufc/100ml, 40-100 cfu / g the number of microorganisms is estimated)

Declarations of conformity and decision-making rule: take into account the measurement uncertainty as indicated by the laws and regulations in force or by specific customer requests, applying the rules relating to the rounding of the numbers; if not provided for by laws and regulations in force or by specific customer requests, the measurement uncertainty of the test is not considered to express the opinion of conformity.

This Test Report refers only to the sample submitted to the test; for samples performed by the customer the results refer to the sample as received. Name and description of the sample are declared by the Customer; the laboratory declines all responsibility for the information provided by the customer reported in this test report which may influence the validity of the results. This test report can only be reproduced in full; partial reproduction must be authorized with written approval by the Laboratory.

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END OF TEST REPORT

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