

Test Report N. 3416 /EL MI20

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

Modena 28/12/2020

Receipt N.: 3.416/EL MI	Date of receipt : 22/09/20	Analysis start date: 15/12/20	Analysis end date: 23/12/20
Material:	Ceramics materials		
Product:	Ceramic tile		
Sample:	CALACATTA SL ACTIVE Surfaces - 300 x 150 cm - 6mm Test information: -treated specimen: 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; -test bacteria: Citrobacter Koserii ATCC 27156; -volume of test inoculum: 150ul; -deviation from test method: test bacteria Citrobacter Koserii ATCC 27156		
Sampling:	made by customer		
Date of sampling:	22/09/20		

Test	Method	UM	Result
Antibacterial activity Citrobacter koserii ATCC 27156*	ISO 22196:2011		
<i>N. bacteria inoculated*</i>		Log (cells/ml)	6,11
<i>Average number of bacteria non treated specimen after inoculation t=0h U0*</i>		Log(cells/cm2)	4,33
<i>Average number of bacteria non treated specimen after 24h Ut*</i>		Log(cells/cm2)	5,94
<i>Average number of bacteria treated specimen after 24h At*</i>		Log(cells/cm2)	2,44
<i>Antibacterial activity R*</i>		Log10	3,5

Test Report N. 3416 /EL MI20

Spett.le
IRIS CERAMICA GROUP SPA

Receipt N.: 3.416/EL MI Date of receipt : 22/09/20 Analysis start date: 15/12/20 Analysis end date: 23/12/20

Test	Method	UM	Result
Antibacterial activity R%*		%	99,97

TECHNICAL MANAGER

Dr.ssa Alessandra Carletti Ordine
Nazionale dei Biologi Albo professionale
n. AA_034638

File with digital signature

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) 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.

REGIONE EMILIA ROMAGNA - AUTORIZZAZIONE AUTOCONTROLLO N° 008/MO/024.

END OF TEST REPORT

Pagina 2 di 2