Test Report

ASH23-0065192-01

Date: 2023-12-19

Client Name: Jin hua dongrui new-tech materials co.,ltd.

Client Address: linxia industrial area jindong,jinhua zhejiang province,China

Sample Name:	stainelss steel mug with ceramic coating
Sample Batch No.:	/
Production Date:	/
Manufacturer:	/

Above information and sample(s) was/were submitted and certified by the client, SGS quoted the information with no responsibility as to the accuracy, adequacy and/or completeness.

SGS reference No.:	SHP23-021465
Date of Sample Received:	2023-12-12
Testing Period:	2023-12-12 ~ 2023-12-19
Test Method(s):	Please refer to next page(s).
Test Result(s):	Please refer to next page(s).

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SGS Approved Signatory

Scan to see the report

ASH23-0065192-01

Verification:
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Test Report

ASH23-0065192-01

Date: 2023-12-19

Sample Description:

Sample No.	SGS Sample ID	Description
1	ASH23-0065192-0001	sample in bag

Test Result(s):

Test Requested: Selected test(s) as requested by applicant:Antimicrobial activity test

Test Method: JIS Z 2801:2010(COR 1:2011,AMD 1:2012) Antimicrobial products - Test for antimicrobial activity and efficacy(Including modification list COR 1:2011,AMD 1:2012)

ASH23-0065192-0001

Test organism(s)	Escherichia coli ATCC 8739
Concentration of bacteria (CFU/mL)	5.3×10^5
Volume of test inoculum (mL)	0.4
U_0	4.11
U_t	6.01
A_t	-0.20
B (CFU/cm²)	1.0×10^6
C (CFU/cm²)	<0.63
R	6.2
Antibacterial activity rate (%)*	>99.9
Comment	Pass

Test organism(s)	Staphylococcus aureus ATCC 6538P
Concentration of bacteria (CFU/mL)	8.5×10^5
Volume of test inoculum (mL)	0.4
U_0	4.30
U_t	5.46
A_t	-0.20
B (CFU/cm²)	2.9×10^5
C (CFU/cm²)	<0.63
R	5.7
Antibacterial activity rate (%)*	>99.9
Comment	Pass

Notes:

1.The control sample is plastic film without antimicrobial activity, provided by SGS laboratory.
2.U_0: the average of the common logarithm of the number of viable bacteria that recovered from control sample at "0 h" contact time(CFU/cm²).
3.U_t: the average of the common logarithm of the number of viable bacteria that recovered from control sample at "24 h" contact time(CFU/cm²).
4.A_t: the average of the common logarithm of the number of viable bacteria that recovered from sample at "24 h" contact time(CFU/cm²).
5.R: the value of antimicrobial activity, $R=U_t-A_t$.
6.The requirement of JIS Z 2801:2010（COR 1:2011,AMD 1:2012）: the value of antimicrobial activity≥2.0.
7.*The calculation formula of the antibacterial activity rate is【(B-C)/B】x100%;

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B: arithmetic average of the numbers of bacteria obtained from control samples after 24 h incubation(CFU/cm²);

C: arithmetic average of the numbers of bacteria obtained from samples after 24 h incubation(CFU/cm²).

8. Pre-treatment: The surface of test specimen was wiped with 70% ethanol, rinsed with sterile water and let it air-dry.

9. Test side: The blue side.

10.Unless otherwise stated, the judgement of compliance in this report is based on whether the test result is within the specified limits or specifications with no account taken of the uncertainty.

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Sample Photo:

ASH23-0065192

ASH23-0065192-0001

SGS authenticate the photo on original report only

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