广州市微生物研究所有限公司

GUANG ZHOU INSTITUTE OF MICROBIOLOGY CO., LTD.

检 测 报 告

TEST REPORT

Report Number	KY20200699
Name of Sample	Bio Based Industrial Coatings
Applicant	Allcera B.V

GUANG ZHOU INSTITUTE OF MICROBIOLOGY CO., LTD.

TEST REPORT

Date Received: Sep. 24, 2020
Date Analyzed: Oct. 05, 2020

Name of Sample	Bio Based Industrial Coatings	Source of Sample	Delivery
Applicant	Allcera B.V	Client	Lin Wenliang
Manufacturer	Allcera B.V	Brand	——
Type and Specification	750ml	Quantity of Sample	1PC
Date of Production	——	State of Sample	Liquid
Batch Number	——	Packing of Sample	Bollted
Standard and Methods	Referring to GB/T 30706-2014 Measurment method and evaluating of the antibacterial characteristics of photocatalysis materials under visible light irridation		
Items of Analysis	Virus Killing Test (*Influenza A virus* A/PR8/34 H1N1)		
Remarks	——		

To be continued

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Killing Test:

1. Test Supplies
   1) Strain: *Influenza A virus* A/PR8/34 H1N1
   2) Cells: MDCK
2. Test Conditions
   1) Environmental temperature: (23~25) ℃
   2) Environmental humidity: (63~69) %RH
   3) Test time: 24 h
3. Test Procedure
   1) On the first day of the experiment, MDCK cells were inoculated into a 96-well cell culture plate, with 1.5×10^4 cells/well, and the cells were standby when they grew into a monolayer..
   2) 9 slices with an area of 9 cm^2 were soaked in Bio Based industrial coating antibacterial liquid for 10 min, and then taken out and dried.
   3) Add 0.2 ml of H1N1 virus droplet containing $10^{6.5}$ $TCID_{50}$ onto the carrier piece, spread evenly and dry to complete the preparation of the virus smear.
   4) The virus smear was placed under the ultraviolet lamp of 365 nm, and the light intensity was adjusted to 0.1 mW/cm^2 for 24h (light condition). The other group was placed in a dark environment without irradiation (dark conditions). The virus was added directly to the carrier piece for 24 h (the 24-hour control group). At the same time, the control group and the control group of 0 h were set up.
   5) After 24 h of irradiation, each group was treated with 1ml serum-free medium to recover the virus.
   6) The recovered virus liquid was diluted 10-fold with serum-free DMEM. Then add MDCK cells that grow into a single layer, and culture for 4-5 days.
   7) The lesion was recorded. $TCID_{50}$ was calculated according to the Reed-Muench formula.
4. Test Results

Virus	Test Time (h)	Group	First Test ($TCID_{50}$/ml)	Second Test ($TCID_{50}$/ml)	Third Test ($TCID_{50}$/ml)	Mean ($TCID_{50}$/ml)	Mean Inactivation Log Value	Killing Rate (%)
A/PR8/34 (H1N1)	24	Blank Control Group	6.32×10^5	1.12×10^6	6.32×10^5	7.95×10^5	——	——
		0h Control Group	1.12×10^6	1.12×10^6	1.12×10^6	1.12×10^6	——	——
		24h Control Group	2.00×10^4	1.12×10^5	6.32×10^4	6.51×10^4	——	——
		Dark Condition Test Group	1.12×10^2	1.12×10^2	6.32×10^2	2.85×10^2	2.36	99.56
		Light Condition Test Group	<6.32	<6.32	<6.32	<6.32	>4.01	>99.99

*****End of report*****

Editor 庄萍华 Checker [signature] Issuer [signature] Date Reported 2020.10.30

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