



Applicant: JM Material Technology Inc.
 5th floor of 3, No. 40-2, Sec. 1, Minsheng N. Rd.,
 Guishan Dist., Taoyuan City 333, Taiwan (R.O.C)

May, 20, 2020

Test results to the sample submitted are as follows.

BOKEN QUALITY EVALUATION INSTITUTE
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Taiwan Testing Center
 SGS Taiwan Ltd.

Date of reception: March 27, 2020
 Item Name/Item number: JM nanocomposite material
 Quantity: 2

31, Wu Chyuan Road, New Taipei Industrial Park,
 Wu Ku, Dist., New Taipei City 24886, Taiwan
 TEL.+886-2-2299-3279/FAX.+886-2-2299-9630

[Test Item] A method specified by the applicant (Determination of antiviral activity)

[Reference standard] ISO21702, JIS R 1702

[Test Method]

Virus solution prepared so that viable account in the MEM medium is about 10^8 PFU/mL or more was diluted 10 times with sterile purified water. Used it as test virus solution.

Inoculated 0.4 mL of the test virus solution on each 5 cm square specimen placed, covered them with 4 cm cover film and irradiated the light under black light for 4 h.

After 4 h light-irradiation, put them into stomacher bags, added 10 mL of the washing-out solution, kneaded sufficiently and washed the virus out.

Measured the virus infectivity titer in the wash-out solution and calculated the common logarithm value of the infectivity titer per cm^2 of test specimen. Used "Glass (Blank)" as a comparison control, and carried out the measurements after designed period and immediately after inoculation.

Type of the light source: fluorescent blacklight lamp 20 W x 2 (TOSHIBA FL20S BLB)

Integrating UV light meter: Hamamatsu Photonics K.K., C10427, H10428

Irradiation condition: $0.25 \text{ mW/cm}^2 \cdot 4 \text{ h}$ ($25 \pm 5 \text{ }^\circ\text{C}$)

Type of the cover film: film sheet for overhead projector

Type of the glass for moisture retention: borosilicate glass

Wash-out solution: SCDLP medium

Measurement method of the virus infectivity titer: Plaque assay

[Test virus] Influenza A virus (H1N1): ATCC VR-1469

Notice - This test result is applied to the submitted sample, not to the lot.

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* T W - 2 0 1 0 0 7 8 *



[Test Result]

Concentration of the test virus: 1.6×10^7 PFU/mL

Name of the sample	Common logarithm value of infectivity titer	Antiviral activity value
Glass (Blank), immediately after inoculation [U ₀]	5.63	_____
Glass (Blank), after 4 h [U ₁]	4.76	_____
JM nanocomposite material (JM-TTA01) [A ₁]	2.54	2.2

* Calculation of antiviral activity value in ISO21702:2019.

Antiviral activity value = $U_1 - A_1$

* Tested by Boken Osaka laboratory.

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Supervised by H. Yamamoto

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