

FINAL REPORT

VIRUCIDAL SUSPENSION EFFICACY TEST Enterovirus

TEST AGENT
Nanocomposite Material

Author Zheng Chen, M.S.

Performing Laboratory

MicroBio Lest

Division of Microbac Laboratories, Inc.

105 Carpenter Drive

Sterling, Virginia 20164

Laboratory Project Identification Number 852-102

Sponsor

JM Material Technology Inc
O. 5F.-3, No. 40-2, Sec. 1, Minsheng N. Rd.
Guishan Township, Taoyuan County 333

Taiwan (R.O.C.)

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COMPLIANCE STATEMENT

This study meets the requirements for 21 CFR § 58 with the following exceptions:

 Information on the identity, strength, purity, stability, uniformity, and dose solution analysis of the test agent resides with the sponsor of the study.

The following technical personnel participated in this study:

Zheng Chen, Semhar Fanuel

Study Director:

MicroBioTest

Zheng Chen, M.S.

04/30/2014

Date

QUALITY ASSURANCE UNIT STATEMENT

Title: VIRUCIDAL SUSPENSION EFFICACY TEST - Enterovirus

The Quality Assurance Unit of MicroBoTest has inspected the Project Number 852-102 in compliance with current Good Laboratory Practice regulations (21 CFR § 58).

The dates that inspections were made and the dates that findings were reported to management and to the study director are listed below.

PHASE INSPECTED	DATE OF INSPECTION	DATE REPORTED TO STUDY DIRECTOR	DATE REPORTED TO MANAGEMENT
Protocol	04/02/14	04/02/14	04/02/14
In-Process	04/02/14	04/02/14	04/02/14
Final Report	04/25/14	04/25/14	04/25/14
	76		

Nathan S. Jones, RQAP-GLP Quality Assurance Unit Date

St 04/30/2014

TEST SUMMARY

TITLE: VIRUCIDAL SUSPENSION EFFICACY TEST - Enterovirus

STUDY DESIGN: This study was performed according to the signed protocol and

project sheet(s) issued by the Study Director (See Appendix).

TEST MATERIALS: Nanocomposite Material (JM-TTA01-N000), received at

MicroBioTest 02/14/14, assigned DS No. E4/

SPONSOR: JM Material Technology Inc

O. 5F.-3, No. 40-2, Sec. 1, Minsheng N. Rd

Guishan Township, Taoyuan County 633

Taiwan (R.O.C.)

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Challenge virus:

Human Enterovirus Type 71, ATCC VR-1432

Host:

LLC-MK2 cells, ATCC CCL-7.1

Active ingredient(s):

TiO₂ & Ag

Neutralizer used:

RPMI 1640 + 1% Newborn Calf Serum (NCS) + 0.5% Polysorbate 80 +

1mM EDTA

Dilution medium:

RPMI 1640 + 2% NCS

Organic load:

5% Serum

UV-A lamp:

365nM, 15W

Contact time(s) Under UV-A lamp at a distance of 35cm:

20 minutes

Test agent application:

Suspension test - direct mixing

(0.3 ml of virus stock added to 2.7 mL of test product)

Contact temperature:

Room temperature (24°C actual)

Project No. 852-102

TEST CONDITIONS (continued)

Dilution(s):

Ready to use

Incubation temperature:

36±2C in 5±1% CO₂

Media and reagents:

RPMI 1640 + 2% Newborn Calf Serum (NCS)
RPMI 1640 + 1% NCS + 0.5% Polysorbate 80 + 1mM EDTA
Sephacryl Columns

STUDY DATES AND FACILITIES

The laboratory phase of this test was performed at MicroBioTest, 105 Carpenter Drive, Sterling, VA 20164. Testing was initiated on 04/02/14, and was completed on 04/16/14. The study director signed the protocol on 04/01/14. The study completion date is the date the study director signed the final report.

All changes or revisions of the protocol were documented, signed by the study director, dated and maintained with the protocol.

RECORDS TO BE MAINTAINED

All testing data, protocol protocol modifications, test material records, the final report, and correspondence between MicroBioTest and the sponsor will be stored in the archives at MicroBioTest, 105 Carpenter Drive, Sterling, VA 20164, or at a controlled facility off site.

CALCULATION OF TITER

The 50% tissue culture infectious dose per mL (TCID₅₀/mL) was determined using the Spearman-Karber method using the following formula:

$$m = x_k + \left(\frac{d}{2}\right) - d\sum p_i$$

where:

m = the logarithm of the titer relative to the test volume

 x_k = the logarithm of the smallest dosage which induces infection in all cultures

d = the logarithm of the dilution factor

p_i = the proportion of positive results at dilution i

The values were converted to TCID₅₀/mL using a sample inoculum of 1.0 mL.



RESULTS

Results are presented in Tables 1-3.

The Viral load was determined in the following manner:

Viral Load (Log_{10} TCID₅₀) = Titer (Log_{10} TCID₅₀/mL) + Log_{10} [Volume (mL) x Volume Correction Factor]

The log₁₀ Reduction Factor (LRF) was calculated in the following manner:

Log₁₀ Reduction Factor = Initial viral load (Log₁₀) – Output viral load (Log₁₀)

The percentage of virus inactivation was calculated in the following manner:

[1-Output Viral Load / Initial Viral Load] x 100 = 1/10^ (Hog to Reduction Factor) x 100

Table 1
Titer Results

Sample	Titer (Log ₁₀ TCiD ₅₀ /mL)	Volume (mL)	Volume Correction ^a	Viral Load (Log ₁₀ TCID ₅₀)
Cell viability/media sterility control	no virus detected, cells viable; media sterile			
Virus Stock Titer Control	5.75	141		2
Theoretical viral load per run**	-			5.23
Virus Recovery Control (with UV-A) ^b	5.00	3	2	5.78
Virus Recovery Control (without UV-A) ^b	4.75	3	2	5.53
Column Titer Control (with UVA)	5.25	3	2	6.03
Column Titer Control (without UV-A)	5.00	3	2	5.78
Nanocomposite Material (with UV-A) ^b	≤ 0.83 *	3	2	≤ 1.61

^{*} No virus was detected. The liter was determined based on the Poisson distribution.

^{**} The theoretical yiral load was calculated based on the titer of the stock virus and the volume (0.3 mL) added into each reaction mixture.

^a Volume correction accounts for the neutralization of the sample post contact time.

^b Sample was processed by Sepnacryl column.

RESULTS (continued)

Table 2
Neutralizer Effectiveness/Viral Interference and Cytotoxicity Controls

Dilution of the Neutralized Sample	Neutralizer Effectiveness/Viral Interference Control (with UV-A) ^a	Cytotoxicity with Control (with UV-A) a
10^-1	virus detected in 4 out of 4 wells	no cytotoxicily observed
10^-2	virus detected in 4 out of 4 wells	no cytotoxicity observed
10^-3	virus detected in 4 out of 4 wells	no cytotoxicity observed

^a Sample was processed by Sephacryl column,

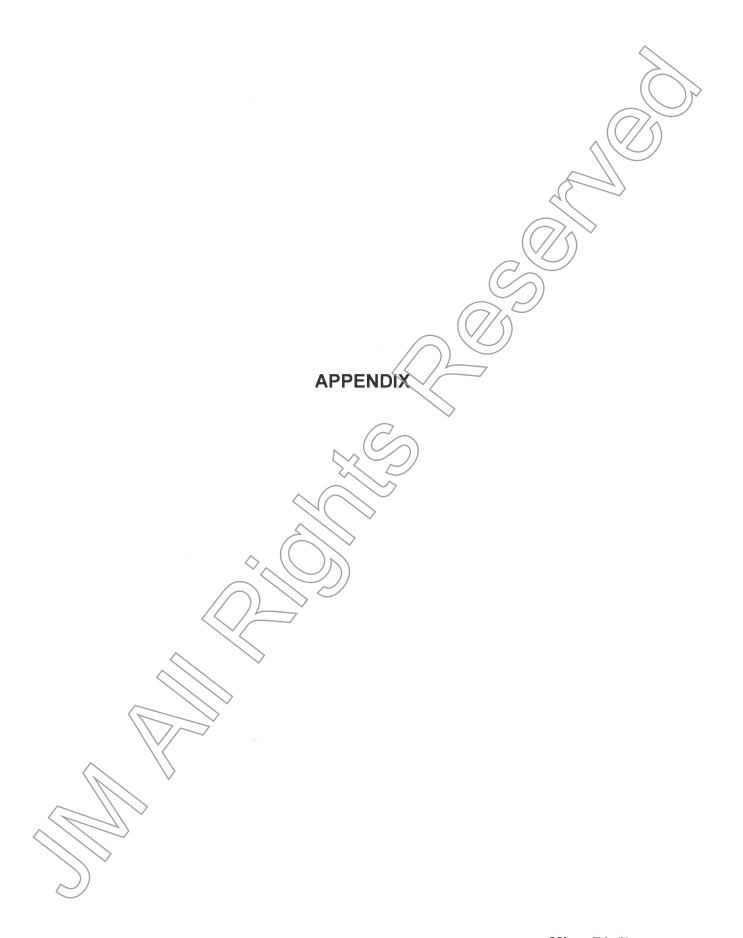
Table 3
Reduction Factor

Test Agent	Contact Time	Initial Viral Load (Log ₁₀ TCID ₅₀)	Output Viral Load (Log ₁₀ TCID ₅₀)	Log ₁₀ Reduction	Percent Reduction (%)
Nanocomposite Material	20 minutes	5.78	£ 1.61	≥ 4.17	≥ 99.99

CONCLUSIONS

MicroBioTest personnel performed the inactivation procedure using Enterovirus to spike the test agent solution. Samples were taken and titrated by 50% tissue culture infectious dose (TCID₅₀) endpoint assay using LLC-MK2 cells.

Table 3 reports the individual Log₁₀ virus reduction factor for the test article treatment procedure. All of the controls met the criteria for a valid test. These conclusions were based on observed data.





MicroBioTest

A Division of Microbac Laboratories, Inc. 105 Carpenter Drive Sterling, VA 20164

MicroBioTest Protocol

VIRUCIDAL SUSPENSION EFFICACY TES

Enterovirus

Testing Facility

MicroBioTest

A Division of Microbac Laboratories, Inc.

105 Carpenter Drive Sterling, VA 20164

Prepared for

JM Material Technology Inc

O. 5F.-3, No.40-2, Sec. 1, Minsheng N. Rd.

Guishan Township, Taoyuan County 333

Taiwan (R.O.C.)

February 12, 2014

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MicroBioTest Protocol: JMM.2.02.12.14

MicroBioTest Project: 852-102

OBJECTIVE:

This study is designed to measure virucidal effectiveness of a test agent. If determines the potential of the test agent to inactivate virus in suspension. The test follows the principle outlined in the American Society for Test Materials (ASTM) test method designated E1052 – 11, "Standard Test Method to Assess the Activity of Microbicides against Viruses in Suspension".

TESTING CONDITIONS:

The test agents will be evaluated against the challenge virus in suspension. One test agent, one lot, will be evaluated for inactivation of Enterovirus at one exposure (contact) time. Singlet runs (N=1) will be performed for the condition. To minimize buffer interference and to minimize reduction of virucidal activity, the volume of virus inoculum added to test material will be kept to equal or less than 10% of the total volume of the test. Aliquots will be removed at the completion of the contact time from the test agent/virus reaction mixture; neutralized (quenched); and inoculated onto appropriate host cell system. The inoculated host system will be incubated and read for presence of infectious virus.

MATERIALS:

A. Test, control and reference substances will be supplied by the sponsor of the study (see last page).

The test agent will be tested as supplied by the sponsor unless directed otherwise. All operations performed on the test agent such as dilution or specialized storage conditions must be specified by the sponsor before initiation of testing.

The sponsor assures MicroBioTest testing facility management that the test agent has been appropriately tested for identity, strength, purity, stability, and uniformity as applicable.

Protocol. JMM.2.02.12.14

MicroBioTest will retain all unused test agent for a period of at least three months after completion of the test, then return them to the sponsor of the study or discard them in a manner that meets the approval of the safety officer.

- B. Materials supplied by MicroBioTest, including, but not limited to:
 - 1. Challenge virus (requested by the sponsor of the study): Enterovirus
 - 2. Host cell line: LLC-MK2 cells
 - 3. Laboratory equipment and supplies.
 - 4. Media and reagents:

Media and reagents appropriate to the virus-host system will be used and documented in the data pack and project sheets.

TEST SYSTEM IDENTIFICATION:

All dilution tube racks and host-containing apparatus will be labeled with the following information: virus and project number.

EXPERIMENTAL DESIGNS

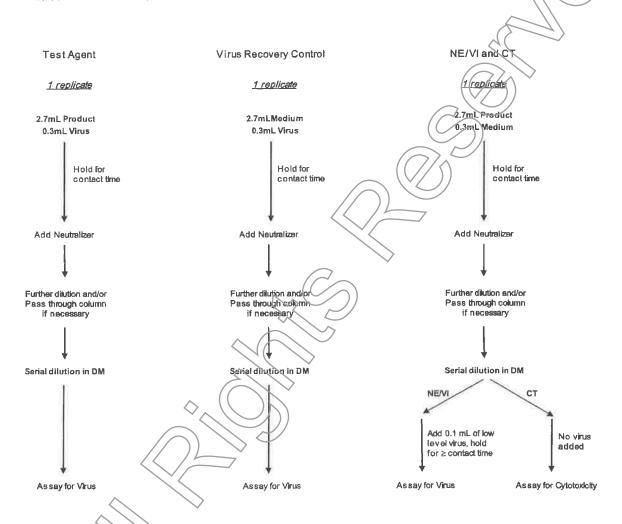
All of the procedures involved in the performance of this study are described in a detailed series of SOPs that are maintained at MicroBioTest SOPs and Logs are referred to in the raw data and are required as part of GLP regulations.

The study flow diagram is summarized in Figure 1, with details described below.

Protocol: JMM.2.02.12.14

FIGURE 1

Title: VIRUCIDAL SUSPENSION EFFICACY TEST - Enterovirus



NE/VI: Neutralizer Effectiveness/Cytotoxicity Control

CT: Cytotoxicity Centrol
DM: Dilution Medium

Note: One test agent, one lot, will be evaluated at one contact time. One replicate run (N=1) will be performed for the condition.

Protocol: JMM.2.02.12.14

A. Inoculum preparation:

Viral stocks are purchased from reputable sources and may have been propagated at MicroBioTest. They are titered and stored in an ultra-low temperature freezer. Records are maintained that demonstrate the origin of the virus.

Frozen viral stocks will be thawed on the day of the test (fresh stock cultures may be used at the discretion of the Study Director).

B. Test agent preparation:

The test agent will be prepared according to the sponsor's directions or label claims (if available).

C. Test:

One test agent, one lot, will be evaluated at one contact time. Singlet runs (N=1) will be performed for the condition.

For the run, a 2.7-mL aliquot of the test agent will be spiked with 0.3 mL of the virus suspension and mixed thoroughly by vortexing. At the completion of the contact time, the entire reaction mixture or an aliquot thereof will be immediately mixed with an equal volume of neutralizer. The post-neutralized sample (PNS) may be further quenched by dilution with dilution medium to remove cytotoxicity. The quenched sample will be serially tenfold diluted with dilution medium (DM) and selected dilutions will be inoculated onto host cells to assay for infectious virus.

If columns are used to further neutralize the test agent and to reduce the cytotoxicity, an aliquot of the PNS sample will be loaded into separate pre-spun Sephacryl columns. The eluates will be aseptically collected and serially diluted in ten-fold increments. If columns are not used, serial ten fold dilutions of neutralized virus-test agent mixture will be prepared in appropriate diluent.

Protocol: JMM,2,02,12,14

D. Infectivity assay:

The residual infectious virus in the test and controls will be detected by viral induced cytopathic effect (CPE).

Selected dilutions of the neutralized inoculum/test agent mixture will be added to cultured cell monolayers at a minimum of four wells per dilution per sample. The host cells may be washed twice with phosphate buffered saline (PBS) prior to inoculation. The inoculated plates will be incubated at 36±26 in 5±1% CO₂ for 11-14 days. The host cell cultures will be observed and refed, as necessary, during the incubation period. These activities, if applicable, will be recorded. Then the host cells will be examined for presence of infectious virus. The resulting virus-specific CPE and test agent-specific cytotoxic effects will be scored by examining both test and controls. These observations will be recorded.

E. Controls:

1. Neutralizer effectiveness/viral interference control:

This control will determine if residual active ingredient is present after neutralization and if the neutralized test agent interferes with virus infectivity. This control will be performed for the test agent in singlet runs.

A 2.7-mL aliquot of the test agent will be mixed thoroughly with 0.3 mL of medium by vortexing, held for contact time, and then neutralized by adding an equal volume of neutralizer. The neutralized mixture will be serially tenfold diluted using dilution medium. The dilution will be divided into two portions, one for Neutralizer effectiveness/viral interference control, and the other for cytotoxicity control

For the Neutralizer effectiveness/viral interference control, 100 µL of a low titered virus stock, containing no more than approximately 5,000 infective units, will be added to 4.5 mL of each of the selected dilutions of the sample and held for a period equivalent or greater than the longer contact time. The virus-spiked solution will be used to inoculate host cells as described for the test procedure.

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2. Cytotoxicity control:

This control will be performed for the test agent in singlet runs.

Selected dilutions of the sample obtained from the Neutralizer effectiveness/viral interference control run will be inoculated onto host cells and incubated together with other test and control samples as described for the test procedure. The condition of the host cells will be recorded at the end of the incubation period. The cytotoxic effects should be distinct from virus-specific cytopathic effects, which will be evident in the stock titer and virus recovery control cultures.

3. Virus recovery control (VRC):

This control will be performed in singlet. A 2.7-mL aliquot of the medium will be spiked with 0.3 mL of virus suspension and thoroughly mixed by vortexing. After the contact time, an aliquot of the reaction mixture will be mixed with an equal volume of neutralizer. The neutralized sample will be serially tenfold diluted with dilution medium and selected dilutions will be inoculated onto host cells to assay for infectious virus. The virus control results from this control will be used as the input viral load and compared with the test agent treatment results to evaluate viral reduction by the test agent.

4. Column titer control (to be performed only if a Sephacryl column is used):

This control will be performed to determine any affect the columns may have on infectious virus titer.

The sample for this control will be acquired from a portion of the VRC, prior to passing through the columns and will be serially diluted in DM, then processed in the same manner as the test.

./Cell viability control:

At least four wells will be inoculated with an appropriate media during the incubation phase of the study. This control will demonstrate that cells

Protocol: JMM.2.02.12.14

remain viable throughout the course of the assay period. In addition, it will confirm the sterility of the media employed throughout the assay period.

6. Virus Stock Titer control (VST)

An aliquot of the virus used in the study will be directly serially diluted and inoculated onto the host cells to confirm the titer of the stock virus. This control will demonstrate that the titer of the stock virus is appropriate for use and that the viral infectivity assay is performed appropriately.

F. Calculation:

The 50% tissue culture infective dose per mL (TCID winL) will be determined using the method of Spearman-Karber (Kärber G. Arch. Exp. Pathol. Pharmakol. Vol. 162. Pages: 480-483, 1931) or other appropriate methods such as Reed and Muench, Am. J. of Hyg. 1938, 27:493. These analyses will be described in detail in the final report. The test results will be reported as the reduction of the virus titer due to treatment with test agent expressed as log₁₀.

TEST ACCEPTANCE CRITERIA:

The test will be acceptable for evaluation of the test results if the criteria listed below are satisfied. The study director may consider other causes that may affect test reliability and acceptance.

- Virus must be recovered from the neutralizer effectiveness/viral interference control (net exhibiting cytotoxicity).
- Viral-induced CPE must be distinguishable from test agent induced toxicity.
- Cell Viability Control must not exhibit viral-induced CPE or cytotoxicity.

PERSONNEL AND TESTING FACILITIES:

A study director will be assigned before initiation of the test. Resumes for technical personnel are maintained and are available on request. This study will be conducted at MicroBioTest, 105 Carpenter Drive, Sterling VA 20164.

Protocol: JMM.2.02.12.14

REPORT FORMAT:

MicroBioTest employs a standard report format for the test design. The final report will provide the following information:

- Sponsor identification and test material identification
- Type of test and project number
- Interpretation of results and conclusions
- Test results presented in tabular form
- Methods and evaluation criteria (if applicable)
- Dates of study initiation and completion (GLP studies only)
- Signed Quality Assurance and Compliance Statements (GLP studies only)

RECORDS TO BE MAINTAINED:

All raw data, protocol, protocol modifications, test agent records, final report, and correspondence between MicroBioTest and the sponsor will be stored in the archives at MicroBioTest, 105 Carpenter Drive, Sterling, Virginia 20164 or in a controlled facility off site.

All changes or revisions to this approved protocol will be documented, signed by the study director, dated and maintained with this protocol. The sponsor will be notified of any change, resolution, and impact on the study as soon as practical.

The proposed experimental start and termination dates; additional information about the test agent; challenge virus and host cell line monolayers used; and the type of neutralizers employed in the test will be addressed in a project sheet issued separately for the study. The date the study director signs the protocol will be the study initiation date. All project sheets issued will be forwarded to the study sponsor.

Protocol: JMM.2.02.12.14

MISCELLANEOUS INFORMATION:

The fo	ollowing information is to be	completed by Sponsor prior to initiation of the study:
Α.	Name and address:	JM Material Technology Inc O. 5F3, No.40-2, Sec. 1, Minsheng N. Rd Guishan Township, Taoyuan County 333 Taiwan (R.O.C.)
В.	Test agent: Active ingredient(s): Lot No.:	Janocomposite Material Tio= & Ag NA.
	Exposure (Contact) time:	20 min
	Exposure temperature:	Room temperature or±2C
	Dilution to be tested: Diluent:	Ready to use or
C.	Precautions/storage condi	tions: refer to MSDS or certificate of analysis provided not provided
D.	Organic Load:	DNA or O % Serum
REPO	ORT HANDLING:	
The s	ponsor intends to submit th	is information to:
EP.		other
_ STUD	Y CONDUCT:	☐ GLP
M	ые on next page	
Protocol	: JMM.2.02.12.14	
		MicroBioTest

MISCELLANEOUS INFORMATION (continued):

	ROVAL BY SPON			
Sponsor Signature	: Chung Chen	, lan	Date:	2014
Printed Name:	CHUNG-C	, lan HEN, LAN		
PROTOCOL APP	ROVAL BY STUD	Y DIRECTOR (Micr	oBio Test))
Study Director Sig	nature:	11+++	Date.	04/01/14
Printed Name:	zheng	chen "		

Protocol: JMM.2.02.12,14

MicroBioTest, A Division of Microbac Laboratories, Inc.

105 Carpenter Dr., Sterling, Virginia 20164

Date Issued: 04/01/14 Project Sheet No. 1 Page	No. 1 Labor	ratory Project Identification No. 852-102		
STUDY TITLE: VIRUCIDAL SUSPENSION	STUDY DI	RECTOR: Zheng Chen, M.S.		
EFFICACY TEST – Enterovirus				
	-0	7/1/44 04/42/194		
	Signature			
TEST MATERIAL(S):	LOT NO.	DATE RECEIVED: DS NO.		
Nanocomposite Materal	NA	02/14/14 E41		
(JM-TTA01-N000)				
PERFORMING DEPARTMENT(S):		E CONDITIONS: Location: J1		
Virology and Molecular Biology		Ambient Room Temperature		
		ator ☐ Freezer ☐ Refrigerator ☐ Other:		
PROTECTIVE PRECAUTION REQUIRED: MSI				
PHYSICAL DESCRIPTION: ☐ Solid ■ Liquid ☐				
PURPOSE: See attached protocol. AUTHORIZ	ATION: See	client signature.		
PROPOSED EXPERIMENTAL START DATE:				
CONDUCT OF STUDY: ■ FDA □ EPA □ R&		T/PERSON: Chung Chen, Lan		
SPONSOR: JM Material Technology Inc		ain 0204@hotmail.com		
O.5F3, No.40-2, Sec.1, Minsheng N. Rd.	E-IIIaii. Six	amozo4@notinali.com		
Guishan Township,Taoyuan County 333 Taiwan(R.O.C.)		*		
TEST CONDITIONS:				
Challenge organism: Human Enterovirus Type	e 71, ATCC \	VR- 1432		
Host cell line: LLC-MK2 cells, ATCC	CCL-7.1			
Active ingredient(s): TiO ₂ & Ag				
Organic load: 5% Serum))			
Dilution medium: RPM 1640 + 2% Newb	orn Calf Serur	m (NCS)		
Neutralizer: RPMI 1640 + 1% NCS	+ 0.5% Polyso	orbate 80 + 1mM EDTA		
Contact time(s): 20 minutes				
Contact temperature: Ambient Room Temperature:	oture			
Contact temperature: Ambient Room Temperature:	ature			
Test Agent Concentration Tested: Ready-to-use				
Incubation Temperature(s): 36±2°C and 5±1%CO ₂				
Incubation time: 11 – 14 days				
Continued on page 2				

Date Issued: 04/01/13 Project Sheet No. 1 Page No. 2 Laboratory Project Identification No. 852-102

EXPLANATION:

This project sheet was issued to document the following:

Protocol Amendment(s):

- 1. Page 10; section D (Organic Load) of protocol states: "0% serum". Per client request, the 5 % serum will be used in the test. This amendment serves to clarify the protocol.
- 2. Per client request the test will be performed as "after mixing, the virus/test agent reaction mixture will be irrdiated under a UV-A lamp which has a wavelength of 365nm and a power of 15w for 20 min (i.e., throughout the entire contact time), at a distance of 35cm. After the irradiation, the reaction mixture will immediately be neutralized and then assayed. The Virus Recovery Control will undergo the same irradiation procedure during the contact time before neutralization. This amendment serves to clarify the page 4, page 5 and page 7 of the protocol.
- 3. An additional control, "Virus Recovery Control without UV" will be performed, wherein the virus/medium mixture will NOT be UV irradiated during the contact time. This amendment serves to add an additional control to the protocol.
- 4. Protocol, Page 10 (Section C), states "MSDS or certificate of analysis" provided, however, the sponsor did not provide MSDS or certificate of analysis. This amendment serves to clarify the protocol.

Date Issued: 04/30/14 Project Sheet No. 2 Page	No. 1 Labora	atory Project Identification No. 852-102
STUDY TITLE: VIRUCIDAL SUSPENSION	STUDY DI	RECTOR: Zheng Chen, M.S.
EFFICACY TEST – Enterovirus	3	D 04/20/14
TECT MATERIAL (C)	Signature	Date Date
TEST MATERIAL(S):	LOT NO.	DATE RECEIVED: DS NO.
Nanocomposite Material (JM-TTA01-N000)	NA NA	02/14/14 E41
PERFORMING DEPARTMENT(S):	STORAGE	CONDITIONS: Location: J1
Virology and Molecular Biology	l .	Ambient Room Temperature
January State Control of the Control		tor Freezer Refrigerator Other:
PROTECTIVE PRECAUTION REQUIRED: MSD		
PHYSICAL DESCRIPTION: ☐ Solid ■ Liquid ☐		
PURPOSE: See attached protocol. AUTHORIZA		
PROPOSED EXPERIMENTAL START DATE: 04	4/02/14 TEF	MINATION DATE: 04/16/14
CONDUCT OF STUDY: ■ FDA □ EPA □ R&D		
SPONSOR: JM Material Technology Inc		PERSON: Chung Chen, Lan
O.5F3, No.40-2, Sec.1, Minsheng N. Rd	E-mail: sha	in0204@hotmail.com
Guishan Township,Taoyuan County 333	0	
Taiwan(R.O.C.)	500	
Protocol Amendment(s):		
Trotocol Amendment(s).		
5. Project Sheet No.1 states "Materal", H	lowever, the	correct spelling is Material. This
amendment serves to address the typ		
$\Diamond_{\wedge}(\bigcirc)$		
(1) (2)		
		O signed for 20. 52 04/30/20
_))		0, 1