b|e|i RESOURCES

SUPPORTING INFECTIOUS DISEASE RESEARCH

Certificate of Analysis for NR-13221

Chikungunya Virus, R-91142

Catalog No. NR-13221

This reagent is the tangible property of the U.S. Government.

Product Description: Cell lysate and supernatant from *Cercopithecus aethiops* kidney epithelial cells (Vero E6) infected with chikungunya virus, R-91142.

Lot[1]: 58507548 **Manufacturing Date: 27MAR2009**

TEST	SPECIFICATIONS	RESULTS
Sequencing of Species-Specific Region (~ 1020 nt)	Consistent with chikungunya virus	99% identity to chikungunya virus (GenBank: HQ456255)
Titer by $TCID_{50}$ Assay[2,3] in Vero E6 Cells[4]	Report results	5.0 x 10^6 $TCID_{50}$ per mL
Functional Activity by RT-PCR Assay	~ 1200 bp amplicon	~ 1200 bp amplicon
Sterility (21-day incubation)		
Harpo's HTYE broth[5], 37°C and 26°C, aerobic	No growth	No growth
Trypticase soy broth, 37°C and 26°C, aerobic	No growth	No growth
Sabouraud broth, 37°C and 26°C, aerobic	No growth	No growth
Sheep blood agar, 37°C, aerobic	No growth	No growth
Sheep blood agar, 37°C, anaerobic	No growth	No growth
Thioglycollate broth, 37°C, anaerobic	No growth	No growth
DMEM with 10% FBS, 37°C and 5% CO_2	No growth	No growth
Mycoplasma Contamination		
Agar and broth culture (14-day incubation at 37°C)	None detected	None detected

[1]Grown and deposited by Charles H. Calisher, Ph. D., Department of Microbiology, Immunology and Pathology, Colorado State University, Fort Collins, Colorado.

[2]The Tissue Culture Infectious Dose 50% ($TCID_{50}$) endpoint is the 50% infectious endpoint in cell culture. The $TCID_{50}$ is the dilution of virus that under the conditions of the assay can be expected to infect 50% of the culture vessels inoculated, just as a Lethal Dose 50% (LD_{50}) is expected to kill half of the animals exposed. A reciprocal of the dilution required to yield the $TCID_{50}$ provides a measure of the titer (or infectivity) of a virus preparation.

[3]7 days at 37°C and 5% CO_2

[4]Vero E6 cells; ATCC® CRL-1586™

[5]Atlas, Ronald M. Handbook of Microbiological Media. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

Date: 22 OCT 2012 **Signature:** Dorothy C. Young

Title: Technical Manager, BEI Authentication or designee

ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC®'s knowledge.

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