Certificate of Analysis for NR-60834

Measles Virus, Moraten Vaccine Strain

Catalog No. NR-60834

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

Product Description:

Measles virus (MeV), Moraten vaccine strain was developed by further attenuation of the Edmonston-Enders strain at Merck and Company in the 1960's. NR-60834 was produced by infecting *Chlorocebus aethiops* kidney epithelial cells expressing human signaling lymphocytic activation molecule [(Vero-hSLAM; BEI Resources NR-55500™) with the deposited material] and incubating in Dulbecco's Modified Eagle's Medium (ATCC® 30-2002™) supplemented with 2% fetal bovine serum (ATCC® 30-2020™) for 5 days at 37°C with 5% CO_2 to produce this lot.

Passage History:

Vh(1)/Vh(2) (Centers for Disease Control/BEI Resources); Vh = Vero-hSLAM

Lot: 70079293 **Manufacturing Date: 16NOV2025**

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in Vero-hSLAM Cells	Syncytia formation, cell rounding and detachment	Syncytia formation, cell rounding and detachment
Next-Generation Sequencing (NGS) of Complete Genome	≥ 98% sequence identity with MeV, Moraten vaccine strain (GenBank: AF266287)	99.9% sequence identity with MeV, Moraten vaccine strain (GenBank: AF266287.1)
Titer by $TCID_{50}$ Assay in Vero-hSLAM Cells by Cytopathic Effect[1] (8 days at 37°C with 5% CO_2)	Report results	8.9×10^4 $TCID_{50}$/mL
Sterility (21-day incubation)		
Harpo's HTYE broth, 37°C and 26°C, aerobic[2]	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, aerobic	No growth	No growth
Mycoplasma Contamination		
Agar and broth culture (14-day incubation at 37°C)	None detected	None detected
DNA detection by PCR of extracted Test Article nucleic acid	None detected	None detected

[1]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.
[2]Atlas, Ronald M. Handbook of Microbiological Media. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

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Support Provided by NIAID

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