

Measles Virus, Edmonston

Catalog No. NR-44362

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Derived from NIAID Catalog No. V-328-001-020

Product Description:

Measles virus (MeV), Edmonston was isolated from the blood of a human in the acute phase of typical measles in Massachusetts, USA, in 1954. NR-44362 lot 70039701 was produced in human lung fibroblast cells (MRC-5, ATCC® CCL-171™) by infection with BEI Resources seed material (lot 62052480) and incubating in Eagle’s Minimum Essential Medium (ATCC® 30-2003™) supplemented with 2% fetal bovine serum (ATCC® 30-2020™) for 12 days at 37°C with 5% CO₂.

Passage History:

AGMK(6)/MRC-5(4) (Prior to deposit/BEI Resources); AGMK = African green monkey kidney cells; MRC-5 = Human lung fibroblast cells

Lot: 70039701

Manufacturing Date: 19APR2021

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in MRC-5 Cells	Cell rounding and detachment	Cell rounding and detachment
Next-Generation Sequencing (NGS) of Complete Genome Using Illumina® iSeq™ 100 Platform	≥ 98% identity with measles virus, Edmonston (GenBank: K01711)	100% identity with measles virus, Edmonston (GenBank: K01711)
Titer by TCID ₅₀ Assay in MRC-5 Cells by Cytopathic Effect and RT-PCR ¹ (16 days at 37°C and 5% CO ₂)	Report results	2.8 × 10 ⁴ TCID ₅₀ per mL
Sterility (21-day incubation) Harpo’s HTYE broth, 37°C and 26°C, aerobic ² Trypticase Soy broth, 37°C and 26°C, aerobic Sabouraud broth, 37°C and 26°C, aerobic Sheep blood agar, 37°C, aerobic Sheep blood agar, 37°C, anaerobic Thioglycollate broth, 37°C, anaerobic DMEM with 10% FBS, 37°C, aerobic	No growth No growth No growth No growth No growth No growth No growth	No growth No growth No growth No growth No growth No growth No growth
Mycoplasma Contamination Agar and broth culture (14-day incubation at 37°C) DNA detection by PCR of extracted Test Article nucleic acid	None detected None detected	None detected None detected

¹The Tissue Culture Infectious Dose 50% (TCID₅₀) endpoint is the 50% infectious endpoint in cell culture. The TCID₅₀ 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% (LD₅₀) is expected to kill half of the animals exposed. A reciprocal of the dilution required to yield the TCID₅₀ provides a measure of the titer (or infectivity) of a virus preparation.

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

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