

Certificate of Analysis for NR-21716

Venezuelan Equine Encephalitis Virus, V178

Catalog No. NR-21716

Product Description: Cell lysate and supernatant from *Cercopithecus aethiops* kidney epithelial cells (Vero)¹ infected with Venezuelan equine encephalitis virus (VEEV), V178

Lot²: 61659927

Manufacturing Date: 19APR2013

| TEST | SPECIFICATIONS | RESULTS |
|--|---|---|
| Identification by Infectivity Using Vero Cells ¹ | Report results | Rounding and detachment |
| Sequencing of Species-Specific Region (637 nucleotides) | Consistent with VEEV, V178 | 100% identity with VEEV, V178 (GenBank: U55341) |
| Titer by TCID ₅₀ Assay ^{3,4} in Vero Cells ¹ | Report results | 8.9 × 10 ⁹ TCID ₅₀ per mL |
| Functional Activity by RT-PCR Assay | ~ 750 bp amplicon | ~ 750 bp amplicon |
| Sterility (21-day incubation) Harpo's HTYE broth ⁵ , 37°C and 26°C, aerobic 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 and 5% CO ₂ | 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 |

¹Vero cells: ATCC® CCL-81™

²Grown in Dulbecco's Modified Eagle's Medium (ATCC® 30-2002™) supplemented with 2% fetal bovine serum (ATCC® 30-2020™) for 2 days at 37°C with 5% CO₂.

³The 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.

⁴6 days at 37°C and 5% CO₂

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

Date: 12 FEB 2014

Signature:

Title:

Technical Manager, BEI Authentication or designee

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