Rickettsia rickettsii, Strain Smith

Catalog No. NR-333
(Derived from ATCC® VR-149™)

Product Description: Cell lysate and supernatant from African green monkey kidney (Vero) cells1 infected with Rickettsia rickettsii, strain Smith.

Lot2: 58362753         Manufacturing Date: 08DEC2008

TEST                        SPECIFICATIONS                        RESULTS
Identification by Infectivity in Vero Cells1 Report results Cell rounding and sloughing
Identification by Sequencing of Citrate Synthase Gene (~ 660 bp) Identical to GenBank: CP000848 Rickettsia rickettsii Identical to GenBank: CP000848 Rickettsia rickettsii
Titer by TCID50 Assay3,4 in Vero Cells1 Report results 8.9 X 10^5 TCID50/mL
PCR Amplification of Extracted DNA ~ 1154 bp amplicon ~ 1154 bp amplicon
Sterility (21-day incubation) No growth No growth
Harpo's HTYE broth, 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
Brucella 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% CO2 No growth No growth

Mycoplasma Contamination
Agar and broth culture (30-day incubation at 37°C) None detected None detected
DNA detection by PCR of extracted Test Article nucleic acid None detected None detected

1Vero cells: ATCC® CCL-81™
2Grown in Minimum Essential Medium with Earle’s salts (Invitrogen™ 10370-021) supplemented with 10% irradiated fetal bovine serum (Lonza 14-471), 2 mM L-glutamine (Invitrogen™ 25030) and 1 mM sodium pyruvate (Invitrogen™ 11360-070) for 7 days at 37°C and 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.
45 days at 37°C and 5% CO2 with media overlay

Date: 14 MAY 2009
Signature: Signature on file
Title: Technical Manager, BEI Authentication or designee

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