

Toxoplasma gondii, Strain VEG

Catalog No. NR-20730

Product Description:

Toxoplasma gondii (*T. gondii*), strain VEG was isolated from the blood of an AIDS patient with toxoplasmic encephalitis in California in 1989. Strain VEG was deposited as a prototype strain for the type III haplogroup and is a reference strain for the *Toxoplasma gondii* Genome Project at the J. Craig Venter Institute's Genomic Sequencing Center for Infectious Diseases (GSCID). NR-20730 was produced by cultivation of BEI Resources seed lot 59962536 in human foreskin fibroblast cells (ATCC® CRL-1634™) with Dulbecco's Minimal Essential Medium (DMEM) adjusted to contain 10% (v/v) heat-inactivated fetal bovine serum (HIFBS) for 7 days at 37°C in an aerobic atmosphere with 5% CO₂ until lysis of the host cell monolayer was reached.

Lot: 70054766

Manufacturing Date: 16AUG2022

TEST	SPECIFICATIONS	RESULTS
Cell Morphology¹ 7 days at 37°C in an aerobic atmosphere with 5% CO ₂ in DMEM supplemented with 10% HIFBS in human foreskin fibroblast cells (ATCC® CRL-1634™)	Report results	Refractive; crescent-shaped tachyzoites visible
Genotypic Analysis² Sequencing of uracil phosphoribosyltransferase (UPRT) intron 1 (~ 540 base pairs)	≥ 99% sequence identity to <i>T. gondii</i> , strain VEG (GenBank: AAYL02000042.1)	100% sequence identity to <i>T. gondii</i> , strain VEG (GenBank: AAYL02000042.1)
Viable Cell Count by Hemacytometry²	> 10 ⁶ cells per mL	7.8 × 10 ⁶ cells per mL
Viability¹ 7 days at 37°C in an aerobic atmosphere with 5% CO ₂ in DMEM supplemented with 10% HIFBS in human foreskin fibroblast cells (ATCC® CRL-1634™)	Growth	Growth
Sterility (21-day incubation)¹ Harpo's HTYE broth, 37°C and 26°C, aerobic ³ Trypticase soy broth, 37°C and 26°C, aerobic Sabouraud broth, 37°C and 26°C, aerobic DMEM with 10% FBS, 37°C, aerobic Sheep blood agar, 37°C, aerobic Sheep blood agar, 37°C, anaerobic Thioglycollate broth, 37°C, anaerobic	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 Contamination¹ DNA Detection by PCR	None detected	None detected

¹Testing completed on vialled, post-freeze material.

²Testing completed on bulk material prior to vialing and freezing.

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

Figure 1: *T. gondii*, Strain VEG SAG1-mCherry LDH2-sfGFP – UPRT Intron 1 Sequence

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GACAAACGAC CAGGAAGAAA GCATTCTCCA GGACATCATC ACGAGGTAAT CTTTCAACCG AAGTTTGCTT TCCGTGACTC
TGCTGTGG TTATACTGCG TGGCCTTCCC GTCCTGCGGC CCCCTTTTCTT CCGCTTGCTG TTTAAATGCT CGTCCTCGTT
TCCTTCCTG CCGCATCCCC GTATATTTTA AGGAGAGGGA AACAGGCGTG AGTTGGACGG CATGAAAGTT CTCGGCCTGT
ATGCCGGTTG TGGCGGTCGT TTGCAGATTG CTTTTTCTT CGAATCGGTG CTGTAACCCT CGCGAAGAAC GACGCTGCAA
ACGACTTCTC GAACTCTCAG TCGTGTACTT TACGTGCTTC CTTTCAGGTA CTTCCCCCGT CGTTACTCAT TTGTATTCAC
AGCTACGAAG TGTCTTGCAA GGTGGATTTT TGCCAGGCTC CATGTCTCAC TCGTTGCGTT TTCGGAAAAG TTCATGTGTA
ACGTTCCCTT TGCCTGTCAT GACTTTATCA GGTTCCTCAA TGTGGTGCTC ATGAAGA
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06 DEC 2023

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