

**Toxoplasma gondii, Strain EGS**

**Catalog No. NR-44106**

**Product Description:**

*Toxoplasma gondii* (*T. gondii*), strain EGS was isolated in 1998 from amniotic fluid of a human patient with congenital toxoplasmosis. *T. gondii*, strain EGS was deposited to BEI Resources as a recombinant type I/III strain that is highly virulent in mice and is able to spontaneously form cysts *in vitro*. NR-44106 was produced by cultivation of BEI Resources seed lot 62011374 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 6 days at 37°C in an aerobic atmosphere with 5% CO<sub>2</sub> until lysis of the host cell monolayer was reached.

**Lot: 70057112**

**Manufacturing Date: 06FEB2023**

TEST	SPECIFICATIONS	RESULTS
<b>Cell Morphology<sup>1</sup></b> 9 days at 37°C in an aerobic atmosphere with 5% CO <sub>2</sub> in DMEM supplemented with 10% HIFBS in human foreskin fibroblast cells (ATCC® CRL-1634™)	Report results	Refractive; crescent-shaped tachyzoites visible
<b>Genotypic Analysis<sup>2</sup></b> Sequencing of uracil phosphoribosyltransferase (UPRT) intron 1 (~ 540 base pairs)	Consistent with <i>T. gondii</i> ≥ 99% sequence identity to <i>T. gondii</i> , strain EGS SAG1-mCherry LDH2-sfGFP (BEI Resources NR-53930)	Consistent with <i>T. gondii</i> 100% sequence identity to <i>T. gondii</i> , strain EGS SAG1-mCherry LDH2-sfGFP (BEI Resources NR-53930)
<b>Viable Cell Count by Hemacytometry<sup>2</sup></b>	> 10 <sup>6</sup> cells per mL	3.6 × 10 <sup>7</sup> cells per mL
<b>Viability<sup>1</sup></b> 5 days at 37°C in an aerobic atmosphere with 5% CO <sub>2</sub> in DMEM supplemented with 10% HIFBS in human foreskin fibroblast cells (ATCC® CRL-1634™)	Growth	Growth
<b>Sterility (21-day incubation)<sup>1</sup></b> Harpo's HTYE broth, 37°C and 26°C, aerobic <sup>3</sup> 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
<b>Mycoplasma Contamination<sup>1</sup></b> DNA Detection by PCR	None detected	None detected

<sup>1</sup>Testing completed on vial, post-freeze material.

<sup>2</sup>Testing completed on bulk material prior to vialing and freezing.

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

**Figure 1: *T. gondii*, Strain EGS– UPRT Intron 1 Sequence**

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GACAAACGAC CAGGAAGAAA GCATTCTCCA GGACATCATC ACGAGGTAAT CCTTCAACCG AAGTTTGCTT TCCGTGACTC
TGCTCTTGG TTACTACTGC TGGCCTTCCC GTCCTGCGGC CCCCTTTCCT CCGCTTGCTG TTTAAATGCT CGTCTCGTT
TTCCTTCTG CCGCATCCCC GTATATTTTA AGGAGAGGGA AACAGCGGTG AGTTGGACGG AATGAAAGTT CTCGGCCTGT
ACGCCGGTTG TCGCGGTCGT TTGCAGATTG CTTTTTCTT CGAATCGGTG CTGTAACCCCT CGAAGAAGAA CGACGCTGCA
AACGACTTGT CGAACTCTCA GTCGTGTA CTACGTGCTT CCTTTCAGGG ACCTCCCTCC GCGTTACTCA TTTGTATTCA
CAGCTACGAA GTGTCTTGCA AGGTGGATTG GTGCCAGGCT CCATGTCTCA CTCGGTGCGT TTTCCGAAAA GTTCATTGTG
AACGTTCCCC TTGCGTGTCA TGACTTTATC AGGTTTCCCA ATGTGGTGCT CATGAAG
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29 JUN 2023

Technical Manager or designee, ATCC Federal Solutions

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