

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*.

Lot¹: 62011373

Manufacturing Date: 29AUG2013

TEST	SPECIFICATIONS	RESULTS
Genotyping Sequencing of uracil phosphoribosyltransferase (UPRT) intron 1 (~ 520 base pairs)	Consistent with <i>T. gondii</i>	Consistent with <i>T. gondii</i> (Figure 1)
Functional Activity by PCR Amplification² UPRT intron 1	~ 560 base pair amplicon	~ 560 base pair amplicon
Viable Cell Count by Hemacytometry (pre-freeze)	> 10 ⁶ cells/mL	2.5 x 10 ⁷ cells/mL
Viability (post-freeze)³	Growth	Growth
Sterility (21-day incubation) Harpo's HTYE broth ⁴ , 37°C and 26°C, aerobic Trypticase soy broth, 37°C and 26°C, aerobic Sabouraud broth, 37°C and 26°C, aerobic Brain heart infusion, 37°C and 26°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 Contamination DNA Detection by PCR	None detected	None detected

¹The deposited material was passaged in both human foreskin fibroblast cells (ATCC[®] CRL-1634[™]) and green monkey kidney epithelial cells (ATCC[®] CCL-26[™]) with cell cultivation medium for parasites (ATCC[®] medium 222 adjusted to contain 10% heat-inactivated fetal bovine serum) for an undetermined number of passages. NR-44106 lot 62011373 was produced by cultivation of the final passage in human foreskin fibroblast cells (ATCC[®] CRL-1634[™]) in 95% air, 5% CO₂ for 6 days at 37°C, until lysis of the host cell monolayer was reached.

²Primer sequences and conditions for PCR are available upon request.

³Viable cells and signs of infection were seen after 6 days under cultivation conditions at 37°C.

⁴Atlas, Ronald M. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

Figure 1: *Toxoplasma gondii*, Strain EGS - UPRT Intron 1 Sequence

GACCAGGAAG	AAAGCATTCT	CCAGGACATC	ATCACGAGGT	AATCCTTCAA	CCGAAGTTTG	CTTCCGTGA
CTCTGCCTCT	TGGTTATACT	GCGTGCCCTT	CCCGTCCTGC	GGCCCCCTTT	CCTCCGCTTG	CTGTTTAAAT
GCTCGTCCTC	GTTTTTCCTT	CTGCCGCATC	CCCGTATATT	TTAAGGAGAG	GGAAACAGGC	GTGAGTTGGA
CGGAATGAAA	GTTTCTCGGC	TGTACGCCGG	TTGTGCGCGT	CGTTTGCAGA	TTGCTTTTTT	CTTCGAATCG
GTGCTGTAAC	CCTCGAAGAA	GAACGACGCT	GCAAACGACT	TGTCGAAGTC	TCAGTCGTGT	ACTTTACGTG
CTTCCTTTCA	GGGACCTCCC	TCCGCGTTAC	TCATTTGTAT	TCACAGCTAC	GAAGTGTCTT	GCAAGGTGGA
TTCGTGCCAG	GCTCCATGTC	TCACTCGGTG	CGTTTTTCGGA	AAAGTTCATT	GTGAACGTTT	CCCTTGCGTG
TCATGACTTT	ATCAGGTTTC	CCAATG				

Certificate of Analysis for NR-44106**Date:** 20 MAY 2014**Signature:****Title:** Technical Manager, BEI Authentication or designee

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