

Toxoplasma gondii, Strain SF19

Catalog No. NR-49185

Product Description: *Toxoplasma gondii* (*T. gondii*), strain SF19 is a recombinant F1 clone selected from progeny of a genetic cross between a sinfungin-resistant line of the highly virulent Type I GT-1 strain (GT1-SNF^R) and a 5-fluoro-2'-deoxyuridine-resistant line of the non-virulent Type 2 ME49 strain (ME49 FUDR^R).

Lot^{1,2}: 63833055

Manufacturing Date: 22OCT2015

TEST	SPECIFICATIONS	RESULTS
Cell Morphology	Report results	Refractile and oval-shaped
PCR Assay of Extracted DNA ^{3,4} AK56 locus	~ 520 base pair amplicon	~ 520 base pair amplicon
Genotypic Analysis ^{3,4} Sequencing of AK56 locus (~ 490 base pairs) AK56 locus (<i>MfeI</i> digestion)	Consistent with <i>T. gondii</i> Consistent with parental Type I strain	Consistent with <i>T. gondii</i> (Figure 1) Consistent with parental Type I strain
Viable Cell Count by Hemacytometry (pre-freeze)	> 10 ⁶ cells/mL	8 × 10 ⁶ cells/mL
Viability (post-freeze) ⁵	Viable parasites	Viable parasites
Sterility (21-day incubation) Harpo's HTYE broth ⁶ , 37°C and 26°C, aerobic Tryptic Soy broth, 37°C and 26°C, aerobic Sabouraud Dextrose 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 Contamination DNA Detection by PCR	None detected	None detected

¹NR-49185 was produced by cultivation of the deposited material in human foreskin fibroblast cells (ATCC[®] CRL-1634[™]) with cell cultivation medium for parasites (ATCC[®] medium 2222: adjusted to contain 10% heat-inactivated fetal bovine serum). The culture was propagated 6 days at 37°C in an aerobic atmosphere with 5% CO₂ until lysis of the host cell monolayer was reached.

²Quality control testing completed on post-freeze material unless specified as pre-freeze.

³PCR amplification of the AK56 locus was performed. Samples were subjected to restriction enzyme digestion typing by agarose gel electrophoresis.

⁴Primer sequences, annealing temperatures, and conditions for restriction enzyme digestion may be obtained at the *Toxoplasma* Genome Map website ([Toxoplasma Genome Map](#)).

⁵Viable cells and signs of infection were seen after 5 days under cultivation conditions at 37°C.

⁶Atlas, Ronald M. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

Figure 1: AK56 (Chromosome II) Amplicon Sequence

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TTTATTAGGT TTTTCCGTGT TTTTCGCGGAG TCGTCTGAGC TCGGCACTCG CTGCTTTTCCA AAATCTCGTT TCAACGTATC
GCGGCGCCGT CACCGCGCGC AATCCACTGT GATGCATGAT TCTGTTTCTA AAAACTGCGC ATTTTAGCCG GCTCGTTTTT
GCATACGTTT GGACCATAAA ACCTCGTATT GTTGAAGAAG AATGCAATTG GTGTCTGTGC TGATCACCGT ATGAAAATCG
GCGTGTCTCG CCCCTGCGG TGTGCGCGTC CGCTTTTTTGC GACCCCGGTA CACCCGTTTT TTGTGGTCAG CGAGGAACGC
ACTTTTGCTG TTATTGTTCA CTTTTCAGCG TAACACTGAC CCCTTTTCATC GTGGCAGGAA ACGAACTCTC AGCAAGAATT
TTTCAGCACT ACTGCGTCGC AGCAGCCTAG TGGGGTGGAC ACGCATGTGC AGGACGGACA GAAACTGCAA GCTTGTTCGG
CAGGCTAAAA CT

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Certificate of Analysis for NR-49185**Date:** 29 MAR 2016**Signature:**

BEI Resources Authentication

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