SUPPORTING INFECTIOUS DISEASE RESEARCH

### *Toxoplasma gondii*, Strain SF20

#### Catalog No. NR-49186

**Product Description:** *Toxoplasma gondii* (*T. gondii*), strain SF20 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<sup>R</sup>) and a 5-fluoro-2'-deoxyuridine-resistant line of the non-virulent Type 2 ME49 strain (ME49 FUDR<sup>R</sup>).

## Lot<sup>1,2</sup>: 63833058

### Manufacturing Date: 29OCT2015

TEST	SPECIFICATIONS	RESULTS
Cell Morphology	Report results	Refractile and oval-shaped
PCR Assay of Extracted DNA <sup>3,4</sup> AK56 locus	~ 520 base pair amplicon	~ 520 base pair amplicon
<b>Genotypic Analysis</b> <sup>3,4</sup> Sequencing of AK56 locus (~ 480 base pairs) AK56 locus ( <i>Mfe</i> l digestion)	Consistent with <i>T. gondii</i> Consistent with parental Type II strain	Consistent with <i>T. gondii</i> (Figure 1) Consistent with parental Type II strain
Viable Cell Count by Hemacytometry (pre-freeze)	> 10 <sup>6</sup> cells/mL	2.6 × 10 <sup>7</sup> cells/mL
Viability (post-freeze) <sup>5</sup>	Viable parasites	Viable parasites
Sterility (21-day incubation) Harpo's HTYE broth <sup>6</sup> , 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

<sup>1</sup>NR-49186 was produced by cultivation of the deposited material in human foreskin fibroblast cells (ATCC<sup>®</sup> CRL-1634<sup>™</sup>) with cell cultivation medium for parasites (ATCC<sup>®</sup> medium 2222: adjusted to contain 10% heat-inactivated fetal bovine serum). The culture was propagated 7 days at 37°C in an aerobic atmosphere with 5% CO<sub>2</sub> until lysis of the host cell monolayer was reached.

<sup>2</sup>Quality control testing completed on post-freeze material unless specified as pre-freeze.

<sup>3</sup>PCR amplification of the AK56 locus was performed. Samples were subjected to restriction enzyme digestion typing by agarose gel electrophoresis.
<sup>4</sup>Primer sequences, annealing temperatures, and conditions for restriction enzyme digestion may be obtained at the *Toxoplasma* Genome Map website (<u>Toxoplasma Genome Map</u>).

<sup>5</sup>Viable cells and signs of infection were seen after 3 days under cultivation conditions at 37°C.

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

#### Figure 1: AK56 (Chromosome II) Amplicon Sequence

TTTTATTAGG TTTTTCCGTG TTTTCGCGGA GTCGTCTGAG CTCGGCACTC GCTGCTTTCC AAAATCTCGT TTCAACGTAT CGCGGCGCCG TCACCGCGCG CAATCCACTG TGATGCATGA TTCTGTTTCT AAAAACTGCG CCTTTTAGCC GGCTCGTTTT TGCATACGTT TGGACCATAA AACCTCGTAT TGTTGAAGAA GAATGCAATT TGTGTCTGTG CTGATCACCG TATGAAAATC GGCGTGTCTC GCCCCCTGCC GTGTGCGCGGT CCGCTTTTG CGACCCCGGT ACACCCGTTT TTTGTGGGTCA GCGAGGAACG CACTTTTGCT GTTATTGTTC ACTTTCAGC GTAACACTGA CCCCTTTCAT CGTGGCAGGA AACGAACTCT CAGCAAGAAT TTTCGAGCAC TACTGCGTCG CAGCAGCCTA GTGGGGTGGA CACGCATGTG CAGGACGGAC AGAAACTGCA AGCTTGTTCC GC bieii resources

# **Certificate of Analysis for NR-49186**

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Date: 29 MAR 2016

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