

## Certificate of Analysis for NR-49178

### Toxoplasma gondii, Strain 2C10A3

### Catalog No. NR-49178

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**Product Description:** *Toxoplasma gondii* (*T. gondii*), strain 2C10A3 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>: 63516510 Manufacturing Date: 23JUN2015

TEST	SPECIFICATIONS	RESULTS		
Cell Morphology	Report results	Refractile and crescent shaped		
PCR Assay of Extracted DNA <sup>3,4</sup> AK56 locus	~ 520 base pair amplicon	~ 520 base pair amplicon		
Genotypic Analysis <sup>3,4</sup> Sequencing of AK56 locus (~ 500 base pairs) AK56 locus ( <i>Mfel</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 <sup>6</sup> cells/mL	3.5 x 10 <sup>7</sup> cells/mL		
Viability (post-freeze) <sup>5</sup>	Viable parasites	Viable parasites (Figure 2)		
Sterility (21-day incubation) Harpo's HTYE broth <sup>6</sup> , 37°C and 26°C, aerobic Trypticase soy broth, 37°C and 26°C, aerobic Sabouraud broth, 37°C and 26°C, aerobic DMEM with 10% FBS, 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		
Mycoplasma Contamination DNA Detection by PCR	None detected	None detected		

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

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

CCACTGCTTT	TATTAGGTTT	TTCCGTGTTT	TCGCGGAGTC	GTCTGAGCTC	GGCACTCGCT	GCTTTCCAAA	ATCTCGTTTC	
AACGTATCGC	${\tt GGCGCCGTCA}$	CCGCGCGCAA	TCCACTGTGA	TGCATGATTC	TGTTTCTAAA	AACTGCGCAT	TTTAGCCGGC	
TCGTTTTTGC	ATACGTTTGG	ACCATAAAAC	CTCGTATTGT	TGAAGAAGAA	TGCAATTGGT	GTCTGTGCTG	ATCACCGTAT	
GAAAATCGGC	GTGTCTCGCC	CCCTGCCGTG	TGCGCGTCCG	${\tt CTTTTTGCGA}$	CCCCGGTACA	CCCGTTTTTT	GTGGTCAGCG	
AGGAACGCAC	TTTTGCTGTT	ATTGTTCACT	TTTCAGCGTA	ACACTGACCC	CTTTCATCGT	GGCAGGAAAC	GAACTCTCAG	
CAAGAATTTT	CGAGCACTAC	TGCGTCGCAG	CAGCCTAGTG	GGGTGGACAC	GCATGTGCAG	GACGGACAGA	AACTGCAAGC	
TTGTTCCGCA	GGCTAAAACT	C						

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<sup>&</sup>lt;sup>2</sup>NR-49178 was produced by cultivation of the deposited material in human foreskin fibroblast cells (ATCC<sup>®</sup> CRL-1634™) 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% CO₂ until lysis of the host cell monolayer was reached.

<sup>&</sup>lt;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>).

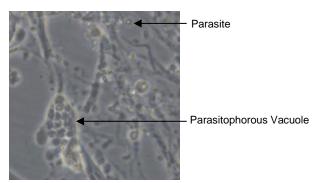
<sup>&</sup>lt;sup>5</sup>Viable cells and signs of infection were seen after 2 days under cultivation conditions at 37°C.

<sup>&</sup>lt;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.



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Figure 2: Viable Parasites after 14 Days (40x Magnification)



**Date:** 09 NOV 2015

Signature: (

**BEI Resources Authentication** 

ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC®'s knowledge.

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