

**Toxoplasma gondii, Strain CAST**

**Catalog No. NR-20734**

**Product Description:** *Toxoplasma gondii* (*T. gondii*), strain CAST was isolated from an AIDS patient with toxoplasmic encephalitis in California, 1988. Strain CAST was deposited as a prototype strain for the type VII haplogroup and is a reference strain for the *Toxoplasma gondii* Genome Project at the J. Craig Venter Institute's Genomic Sequencing Center for Infectious Diseases (GSCID).

**Lot<sup>1</sup>: 60092879**

**Manufacturing Date: 26SEP2011**

TEST	SPECIFICATIONS	RESULTS
<b>Genotyping</b> Sequencing of uracil phosphoribosyltransferase (UPRT) intron 1 (~ 470 bp)	Consistent with <i>T. gondii</i> , haplotype VII	Consistent with <i>T. gondii</i> , haplotype VII <sup>2</sup> (Figure 1)
<b>Functional Activity by PCR Amplification<sup>3</sup></b> UPRT intron 1	~ 560 bp amplicon	~ 560 bp amplicon
<b>Viable Cell Count by Hemacytometry (pre-freeze)</b>	> 10 <sup>6</sup> cells/mL	1.3 x 10 <sup>7</sup> cells/mL
<b>Viability (post-freeze)<sup>4</sup></b>	Growth	Growth
<b>Sterility (21-day incubation)</b> Harpo's HTYE broth <sup>5</sup> , 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
<b>Mycoplasma Contamination</b> DNA Detection by PCR	None detected	None detected

<sup>1</sup>NR-20734 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 medium 2222: adjusted to contain 10% heat-inactivated fetal bovine serum). The culture was propagated in 95% air, 5% CO<sub>2</sub> for 10 days at 37°C, until lysis of the host cell monolayer was reached.

<sup>2</sup>Haplotype identification is based on a sequence alignment of NR-20734, lot 60092879, to a reference sequence provided by the depositor. See figure 1 for NR-20734 sequence.

<sup>3</sup>Primer sequences and conditions for PCR are available upon request.

<sup>4</sup>Viable cells and signs of infection were seen after 10 days under cultivation conditions at 37°C.

<sup>5</sup>Atlas, Ronald M. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

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

GTAATCCTTC AACCGAAGTT TGCTTTCCGT GACTCTGCCT CTTGGTTATA CTGCGTGGCC TTCCCCTCCT GCGGCCCCCT  
 TTCTCCGCT TGCTGTTTAA ATGCTCGTCC TCGTTTTTCT TCCTGCCGCA TCCCCGTATA TTTTAAGGAG AGGGAAACAG  
 GCGTGAGTTG GACGGCATGA CGGTTCTCGG CCTGTATGCC GGTTGTGCGG GTCGTTTGCA GATTGCTTTT TTCTTCGAAT  
 CGGTGCTGTA ACCCTCGCGA AGAACGACG TGCAAACGAC TTCTCGAACT CTCAGTCGTG TACTTTACGT GCTTCCTTTC  
 AGGGACCTCC CCCCOCGTTA CTCATTTGTA TTCACAGCTA CGAAGTGTCT TGCAAGGTGG ATTTCTGCCA GGCTCCATGT  
 CTCACTCGTT GCGTTTTTCGG AAAAGTTCAT TGTGAACGTT CCCCTTGCGT GTCATGACTT TATCAG

**Date:** 14 SEP 2015

**Signature:**



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