

Toxoplasma gondii, Strain TgCatPRC2

Catalog No. NR-20739

Product Description: *Toxoplasma gondii* (*T. gondii*), strain TgCatPRC2 was isolated in 2007 from a cat in Guangzhou, Guangdong province, People’s Republic of China. *T. gondii*, strain TgCatPRC2 was deposited to BEI Resources as a prototype strain for the type XIII 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).

Lot¹: 61372926

Manufacturing Date: 25FEB2013

TEST	SPECIFICATIONS	RESULTS
Genotyping Sequencing of uracil phosphoribosyltransferase (UPRT) intron 1 (~ 470 bp)	Consistent with <i>T. gondii</i> , haplotype XIII	Consistent with <i>T. gondii</i> , haplotype XIII ² (Figure 1)
Functional Activity by PCR Amplification³ UPRT intron 1	~ 560 bp amplicon	~ 560 bp amplicon
Viable Cell Count by Hemacytometry (pre-freeze)	> 10 ⁶ cells/mL	2.3 x 10 ⁷ cells/mL
Viability (post-freeze)⁴	Growth	Growth
Sterility (21-day incubation) Harpo’s HTYE broth ⁵ , 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

¹NR-20739 was produced by cultivation of the deposited material in green monkey kidney epithelial cells (ATCC® CCL-26™) 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% CO₂ for 4 days at 37°C, until lysis of the host cell monolayer was reached.

²Haplotype identification is based on a sequence alignment of NR-20739, lot 61372926, to a reference sequence provided by the depositor. See figure 1 for NR-20739 sequence.

³Primer sequences and conditions for PCR are available upon request.

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

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

Figure 1: *Toxoplasma gondii*, Strain TgCatPRC2 - UPRT Intron 1 Sequence

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GTAATCCTTC AACCGAAGTT TGCCTTCCGT GACTCTGCCT CTTGGTTATA CTGCGTGGCC TTCCCCTCCT GCCGCCCCCT
TTTCTCCGCT TGCTGTTTAA ATGCTCGTCC TCGTTTTTCTC TCCTGCCGCA TCCCCGTATA TTTTAAGGAG AGGGAAACAG
GCGTGAGTTG GACGGAATGA AAGTTCTCGG CCTGTACGCC GGTTGTGCGG GTCGTTTGCA GATTGCTTTT TTCTTCGAAT
CGGTGCTGTA ACCCTCGCGA AGAACGACGC TGCAAACGAC TTCTCGAACT CTCAGTCGTG TACTTTACGT GCTTCCTTTC
AGGGACCTCC CCCCOCGTTA CTCATTTGTA TTCACAGCTA CGAAGTGTCT TGCAAGGTGG ATTCGTGCCA GGCTCCATGT
CTCACTCGGT GCGTTTTTCGG AAAAGTTCAT TGTGAACGTT CCCCTTGCCT GTCATGACTT TATCAG
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Date: 20 FEB 2014

Signature:



Title:

Technical Manager, BEI Authentication or designee

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