

Toxoplasma gondii, Strain TgCatCo5

Catalog No. NR-44359

Product Description: *Toxoplasma gondii* (*T. gondii*), strain TgCatCo5 was isolated in 2006 from a cat in Colombia, South America. Strain TgCatCo5 was deposited to BEI Resources as a prototype type XV strain and was sequenced as part of the *Toxoplasma gondii* Genome Project at the J. Craig Ventor Institute's Genomic Sequencing Center for Infectious Diseases (GSCID).

Lot¹: 62123170

Manufacturing Date: 21OCT2013

TEST	SPECIFICATIONS	RESULTS
Genotyping Sequencing of uracil phosphoribosyltransferase (UPRT) intron 1 (~ 520 base pairs)	Consistent with <i>T. gondii</i> , haplotype XV	Consistent with <i>T. gondii</i> , haplotype XV ² (Figure 1)
Functional Activity by PCR Amplification³ UPRT intron 1	~ 560 base pair amplicon	~ 560 base pair amplicon
Viable Cell Count by Hemacytometry (pre-freeze)	> 10 ⁶ cells/mL	2 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-44359 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 in 95% air, 5% CO₂ for 7 days at 37°C, until lysis of the host cell monolayer was reached.

²Haplotype identification is based on a sequence alignment of NR-44359 lot 62123170 to a reference sequence provided by the depositor.

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

⁴Viable cells and signs of infection were seen after 8 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 TgCatCo5 - UPRT Intron 1 Sequence

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TGCCGCTCCC TTTCTCCGC TTGCTGTTTA AATGCTCGTC CTCGTTTTCC TTCCTGCCGC ATCCCCGTAT ATTTAAGGA
GAGGAAACA GGCATGAGTT GGACGAAATG AAAGTTCTCG GCCTGTACGC CGGCTGTGCG GGTCGTTTGC AGATTGCTTT
TTTCTCGAA TCGGTGCTGT AACCTCGCG AAGAACGACG CTGCAACAA CTTCTCGAAC TCTCAGTCGT GTACTTTACG
TGCTTCCTTT CAGGGACCTC CCCCCGCGTT ACTCATTTGT ATTCACAGCT ACGAAGTGTC TTGCAAGGTG GATTCGTGAC
AGGCTCCATG TCTCACTCGG TGCATTTTCG GAAAAGTTCA TTGTGAACGT TCCCCTTGCG TGTCATGACT TTATCAG
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Date: 20 MAY 2014

Signature:



Title:

Technical Manager, BEI Authentication or designee

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