

**Toxoplasma gondii, Strain RUB**

**Catalog No. NR-20732**

**Product Description:** *Toxoplasma gondii* RUB was isolated from the bronchoalveolar lavage of a human with toxoplasmosis from French Guyana in 1992. Strain RUB was deposited as a prototype strain for the type V 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>: 59758077**

**Manufacturing Date: 21MAR2011**

TEST	SPECIFICATIONS	RESULTS
<b>Genotyping</b> Sequencing of uracil phosphoribosyltransferase (UPRT) intron 1 (~ 470 bp)	Consistent with <i>T. gondii</i> , haplotype V	Consistent with <i>T. gondii</i> , haplotype V <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 (post-freeze)</b>	> 10 <sup>6</sup> cells/mL	2.4 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-20732 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 4 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-20732, lot 59758077, to a reference sequence provided by the depositor. See figure 1 for 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 13 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 RUB - UPRT Intron 1 Sequence**

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GTAATCCTTC AACCGAAGTT TGCTTTCCGT GACTCTGCCT CTTGGTTATA CTGCGTGGCC TTCCCCTCCT GCCGCTCCCT
TTCTCCGCT TGCTGTTTAA ATGCTCGTCC TCGTTTTTCTT TCCTGCCGCA TCCCCGTATA TTTTAAGGAG AGGGAAACAG
GCGTGAGTTG GACGGAATGA AAGTTCTCGG CCTGTACGCC GGTTGTGCGG GTCGTCTGCA GATTGCTTTT TTCTTCGAAT
CGGTGCTGTA ACCCTCGCGA AGAACGACGC TGCAAACGAC TTCTCGAACT CTCAGTCGTG TACTTTACGT GCTTCCTTTC
AGGGACCTCC CCCC CGCTTA CTCATTTGTA TTCACAGCTA CGAAGTGTCT TGCAAGGTGG ATTCGTGACA GGCTCCATGT
CTCACTCGGT GCATTTTTCGG AAAAGTTCAT TGTGAACGTT GCCCTTGCCT GTCATGACTT TATCAG
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**Date:** 14 SEP 2015

**Signature:**   
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