

Toxoplasma gondii, Strain VAND

Catalog No. NR-20738

Product Description: *Toxoplasma gondii* (*T. gondii*), strain VAND was isolated from a human in French Guyana in 1997. Strain VAND was deposited as a prototype strain for the type X haplogroup and is a reference strain for the *Toxoplasma gondii* Genome Project at the J. Craig Ventor Institute's Genomic Sequencing Center for Infectious Diseases (GSCID).

Lot¹: 59907710

Manufacturing Date: 08APR2011

TEST	SPECIFICATIONS	RESULTS
Genotyping Sequencing of uracil phosphoribosyltransferase (UPRT) intron 1 (~ 470 bp)	Consistent with <i>T. gondii</i> , haplotype X	Consistent with <i>T. gondii</i> , haplotype X 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	8 x 10 ⁶ 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-20738 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 3 days at 37°C, until lysis of the host cell monolayer was reached.

²Haplotype identification is based on a sequence alignment of NR-20738, lot 59907710, to a reference sequence provided by the depositor. See figure 1 for NR-20738 sequence.

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

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

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GTAATCCTTC AACCGAAGTT TGCTTTCCGT GACTCTGCCT CTTGGTTATA CTGCGTGGCC TTCCCGTCCT GCCGCCCCCT
TTCTCCGCT TGCTGTTTAA ATGCTCGTCC TCGTTTTCCCT TCCTGCCGCA TCCCGTATA TTTTAAGGAG AGGGAAACAG
GCGTGAGTTG GACGGAATGA AAGTTCTCGG CCTGTACGCC GGTGTGTCGG GTCGTTTGCA GATTGCTTTT TTCTTCGAAT
CGGTGCTGTA ACCCTCGAAG AAGAACGACG CTGCAAACGA CTTCTCGAAC TCTCAGTCGT GTACTTTACG TGCTTCCTTT
CAGGGACCTC CCCCCGCGTT ACTCATTGT ATTCACAGCT ACGAAGTGTC TTGCAAGGTG GATTTCTGCC AGGCTCCATG
TCTCACTCGG TGCCTTTTCG GAAAAGTTCA TTGTGAACGT TCCCCTTGCG TGTCATGACT TTATCAG
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Date: 23 SEP 2011

Signature: 

Title: Technical Manager, BEI Authentication or designee

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