Certificate of Analysis for NR-31079

Toxoplasma gondii, Strain GAB2-2007-GAL-DOM2

Catalog No. NR-31079

Product Description:

Toxoplasma gondii (T. gondii), strain GAB2-2007-GAL-DOM2 was isolated from a chicken in Makokou, Gabon, Africa, in 2007. Strain GAB2-2007-GAL-DOM2 was deposited as a prototype strain for the type 14 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: 70025297[1] **Manufacturing Date: 06APR2019**

TEST	SPECIFICATIONS	RESULTS
Cell Morphology[2]	Report results	Refractile; parasitophorous vacuoles visible
Genotypic Analysis[3] Sequencing of uracil phosphoribosyltransferase (UPRT) intron 1 (~ 540 bp)	≥ 99% sequence identity to *T. gondii*, strain GAB2-2007-GAL-DOM2 (GenBank: AHZU02000452.1)	100% sequence identity to *T. gondii*, strain GAB2-2007-GAL-DOM2 (GenBank: AHZU02000452.1) (Figure 1)
Viable Cell Count by Hemacytometry[3]	> 10^6 cells/mL	4.9 × 10^7 cells/mL
Viability (post-freeze)[2,4]	Growth	Growth
Sterility (21-day incubation)[2]		
Harpo's HTYE broth, 37°C and 26°C, aerobic[5]	No growth	No growth
Trypticase soy broth, 37°C and 26°C, aerobic	No growth	No growth
Sabouraud broth, 37°C and 26°C, aerobic	No growth	No growth
DMEM with 10% FBS, 37°C, aerobic	No growth	No growth
Sheep blood agar, 37°C, aerobic	No growth	No growth
Sheep blood agar, 37°C, anaerobic	No growth	No growth
Thioglycollate broth, 37°C, anaerobic	No growth	No growth
Mycoplasma Contamination[2] DNA Detection by PCR	None detected	None detected

[1]NR-31079 was produced by cultivation of NRS-31079 lot 60773780 in human foreskin fibroblast cells (ATCC® CRL-1634™) with cell cultivation medium for parasites (ATCC® medium 2222: DMEM supplemented with 10% heat-inactivated fetal bovine serum). The culture was propagated for 8 days at 37°C in an aerobic atmosphere with 5% CO_2 until lysis of the host cell monolayer was reached.
[2]Testing completed on vialed, post-freeze material.
[3]Testing completed on bulk material prior to vialing and freezing.
[4]Viable cells and signs of infection were seen after 7 days at 37°C in an aerobic atmosphere with 5% CO_2 in DMEM supplemented with 10% heat-inactivated fetal bovine serum.
[5]Atlas, Ronald M. Handbook of Microbiological Media. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

Figure 1: UPRT Intron 1 Sequence

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GACAAACGAC CAGGAAGAAA GCATTCTCCA GGACATCATC ACGAGGTAAT CCTTCAACCG AAGTTTGCTT TCCGTGACTC TGCCTGTTGG
TTATACTGCG TGGCCTTCCC GTCCTGCGGC CCCCTTTCCT CCGCTTGCTG TTTAAATGCT CGTCCTCGTT TTCCTTCCTG CCGCATCCCC
GTATATTTTA AGGAGAGGGA AACAGGCGTG AGTTGGACGG AATGAAAGTT CTCGGCCTGT ACGCCGGTTG TCGCGGTCGT TTGCAGATTG
CTTTTTTCTT CGAATCGGTG CTGTAACCCT CGCGAAGAAC GACGCTGCAA ACGACTTCTC GAACTCTCAG TCGTGTACTT TACGTGCTTC
CTTTCAGGGA CCTCCCCCCG CGTTACTCAT TTGTATTCAC AGCTACGAAG TGTCTTGCAA GGTGGATTCG TGACAGGCTC CATGTCTCAC
TCGGTGCATT TTCGGAAAAG TTCATTGTGA ACGTTGCCCT TGCGTGTCAT GACTTTATCA GGTTTCCCAA TGTGGTGCTC ATGAA
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/Heather Couch/
Heather Couch 26 NOV 2019
Program Manager or designee, ATCC Federal Solutions

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