Certificate of Analysis for NR-743

Toxoplasma gondii, Strain RH-GFP 5 S65T

Catalog No. NR-743

(Derived from ATCC® 50838™)

Product Description:

Toxoplasma gondii (T. gondii), strain RH-GFP 5 S65T was derived from strain RH by transfection. Strain RH-GFP 5 S65T contains a thermostable form of the green fluorescent protein (GFP) whose expression is driven by the GRA1 promoter. NR-743 was produced by cultivation of BEI Resources seed lot 3919534 in human foreskin fibroblast cells (ATCC® CRL-1634™) with Dulbecco's Minimal Essential Medium (DMEM) supplemented with 10% (v/v) heat-inactivated fetal bovine serum (HIFBS) for 3 days at 37°C in an aerobic atmosphere with 5% CO_2 until lysis of the host cell monolayer was reached. Quality control testing was completed under propagation conditions unless otherwise noted.

Lot: 70071902 **Manufacturing Date: 21NOV2024**

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TEST	SPECIFICATIONS	RESULTS
Cell Morphology[1]	Report results	Refractive; crescent-shaped tachyzoites visible
Genotypic Analysis[2]		
Sequencing of uracil phosphoribosyltransferase (UPRT) intron 1 (~ 530 base pairs) (Figure 1)	Consistent with *T. gondii,* haplotype I (GenBank: U10246.1)	Consistent with *T. gondii,* haplotype I (GenBank: U10246.1)
Sequencing of UPRT intron 1 (530 base pairs) (Figure 1)	≥ 99% sequence identity to *T. gondii,* strain RH (GenBank: LLKL01000320.1)	100% sequence identity to *T. gondii,* strain RH (GenBank: LLKL01000320.1)
Viable Cell Count by Hemacytometry[2]	> 10^6 cells/mL	4.5 × 10^8 cells/mL
Viability[1]	Growth	Growth
Sterility (14-day incubation)[1]		
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
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[1]		
DNA Detection by PCR	None detected	None detected

[1]Testing completed on vialed, post-freeze material.
[2]Testing completed on bulk material prior to vialing and freezing.

Figure 2: *T. gondii,* Strain RH-GFP 5 S65T UPRT intron 1 Sequence

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AAACGACCAG GAAGAAAGCA TTCTCCAGGA CATCATCACG AGGTAATCCT TCAACCGAAG TTTGCTTTCC GTGACTCTGC
CTGTTGGTTA TACTGCGTGG CCTTCCCGTC CTGCGGCCCC CTTTCCTCCG CTTGCTGTTT AAATGCTCGT CCTCGTTTTC
CTTCCTGCCG CATCCCCGTA TATTTTAAGG AGAGGGAAAC AGGCGTGAGT TGGACGGAAT GAAAGTTCTC GGCCTGTACG
CCGGTTGTCG CGGTCGTTTG CAGATTGCTT TTTTCTTCGA ATCGGTGCTG TAACCCTCGC GAAGAACGAC GCTGCAAACG
ACTTCTCGAA CTCTCAGTCG TGTACTTTAC GTGCTTCCTT TCAGGGACCT CCCCCTGCGT TACTCATTTG TATTCACAGC
TACGAAGTGT CTTGCAAGGT GGATTCCTGC CAGGCTCCAT GTCTCACTCG GTGCGTTTTC GGAAAAGTT CATTGTGAAC
GTTCCCCTTG CGTGTCATGA CTTTATCAGG TTTCCCAATG TGGTGCTCAT G
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/Sonia Bjorum Brower/
Sonia Bjorum Brower 07 AUG 2025
Technical Manager or designee, ATCC Federal Solutions

ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC®'s knowledge.

Support Provided by NIAID

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