

Toxoplasma gondii, Strain Dubey

Catalog No. NR-43998

Product Description: *Toxoplasma gondii* (*T. gondii*), strain Dubey was originally isolated from a pig heart from a farm in Massachusetts, USA, and passed singly through a cat in 2002. The collected oocysts were maintained in refrigeration until 2006, at which time fresh oocysts were produced by passage through a mouse and cat. The deposited tachyzoites are from the third-generation of monoxenously-produced oocysts passed through kittens and isolated in cell culture.

Lot¹: 61759078

Manufacturing Date: 03JUN2013

TEST	SPECIFICATIONS	RESULTS
Genotyping Sequencing of uracil phosphoribosyltransferase (UPRT) intron 1 (~ 510 base pairs)	Consistent with <i>T. gondii</i>	Consistent with <i>T. gondii</i> (Figure 1)
Functional Activity by PCR Amplification² UPRT intron 1	~ 560 base pair amplicon	~ 560 base pair amplicon
Viable Cell Count by Hemacytometry (pre-freeze)	> 10 ⁶ cells/mL	3.3 x 10 ⁷ cells/mL
Viability (post-freeze)³	Growth	Growth
Sterility (21-day incubation) Harpo's HTYE broth ⁴ , 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-43998 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). After a series of passages the culture was propagated in 95% air, 5% CO₂ for 6 days at 37°C, until lysis of the host cell monolayer was reached, to produce this lot.

²Primer sequences and conditions for PCR are available upon request.

³Viable cells and signs of infection were seen after 14 days under cultivation conditions at 37°C.

⁴Atlas, Ronald M. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

Figure 1: *Toxoplasma gondii*, Strain Dubey - UPRT Intron 1 Sequence

```
GAAGAAAGCA TTCTCCAGGA CATCATCACG AGGTAATCCT TCAACCGAAG TTTGCTTTCC GTGACTCTGC CTGTTGGTTA
TACTGCGTGG CCTTCCCGTC CTGCGGCCCC CTTTCTCCG CTTGCTGTTT AAATGCTCGT CCTCGTTTTT CTTCTGCGG
CATCCCCGTA TATTTTAAGG AGAGGGAAAC AGGCGTGAGT TGGACGGCAT GAAAGTTCTC GGCCTGTATG CCGGTTGTGG
CGGTCGTTTG CAGATTGCTT TTTTCTTCGA ATCGGTGCTG TAACCCTCGC GAAGAACGAC GCTGCAAACG ACTTCTCGAA
CTCTCAGTCG TGTACTTTAC GTGCTTCCTT TCAGGGACCT CCCCCGCGT TACTCATTTG TATTCACAGC TACGAAGTGT
CTTGCAAGGT GGATTTCTGC CAGGCTCCAT GTCTCACTCG TTGCGTTTTT GGAAAAGTTC ATTGTGAACG TTCCCCTTGC
GTGTCAATGAC TTTATCAGGT TTCCCA
```

Date: 20 MAY 2014

Signature: 

Title: Technical Manager, BEI Authentication or designee

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.

ATCC[®] is a trademark of the American Type Culture Collection.
You are authorized to use this product for research use only. It is not intended for human use.

