

Babesia microti, Strain GI

Catalog No. NR-44070

Product Description:

Babesia microti (*B. microti*), strain GI was isolated from blood obtained from a human case of babesiosis in Nantucket, Massachusetts, USA, in 1983. NR-44070 was produced by intraperitoneal injection of BEI Resources seed lot 61937809 into one Golden Syrian hamster. Infection was allowed to progress for 16 days until the first peak of parasitemia was reached. Infected blood was collected by orbital bleeding and used to inoculate each of five Golden Syrian hamsters with 0.5 mL blood diluted in Alsever's solution. Infection was allowed to progress for 8 days until the first peak of parasitemia was reached and infected blood was collected from all six hamsters by orbital bleeding to produce this lot.

Lot: 70040501

Manufacturing Date: 10DEC2020

TEST	SPECIFICATIONS	RESULTS
Cell Morphology¹ 11 days of infection by examination of Giemsa-stained blood smears	Report results	Ring-like structures visible
Genotypic Analysis² Sequencing of internal transcribed spacer (ITS) 1, 5.8S ribosomal RNA gene, ITS 2 (~ 760 base pairs)	≥ 99% sequence identity to <i>B. microti</i> , strain GI (GenBank: JGUY01000109.1)	100% sequence identity to <i>B. microti</i> , strain GI (GenBank: JGUY01000109.1)
Level of Parasitemia (pre-freeze)² 8 days of infection by microscopic counts of Giemsa-stained blood smears	Report results	38%
Viability^{1,3}	Growth in inoculated hamster	Growth in inoculated hamster

¹Testing completed on vialled, post-freeze material

²Testing completed on bulk material prior to vialing and freezing

³Viability of the material following cryopreservation was determined by inoculation of a Golden Syrian hamster and examination of parasitemia for 11 days post-infection (11% parasitemia).

/Heather Couch/

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Program Manager or designee, ATCC Federal Solutions

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