

Babesia microti, Lab Strain 1

Catalog No. NR-44073

Product Description:

Babesia microti (*B. microti*), Lab Strain 1 (also referred to as Greenwich Yale lab strain 1) was originally isolated in 2004 from blood obtained from a mouse in Greenwich, Connecticut, USA. NR-44073 was produced by intraperitoneal injection of BEI Resources seed lot 62590179 into one SCID mouse. Infection was monitored for 12 days until the parasitemia reached approximately 23%. Infected blood was collected by cardiac puncture and used to inoculate 13 SCID mice. Infection was monitored for 8 days until the first peak of parasitemia was reached and blood was collected by cardiac puncture and pooled to produce this lot.

Lot: 70062615

Manufacturing Date: 28SEP2023

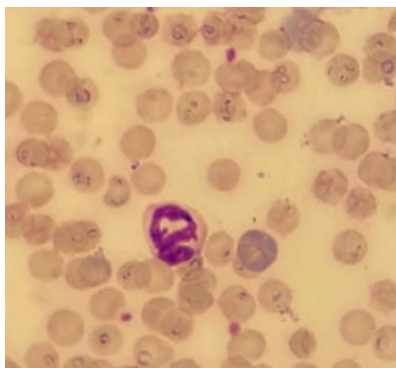
TEST	SPECIFICATIONS	RESULTS
Cell Morphology¹ 17 days of infection by examination of Giemsa-stained blood smears	Report results	Ring-like and tetrad structures visible (Figure 1)
Genotypic Analysis² Sequencing of internal transcribed spacer (ITS) 1, 5.8S rRNA gene, ITS 2 (~ 750 base pairs)	≥ 99% sequence identity to <i>B. microti</i> , Lab Strain 1 (GenBank: JGUW01000155.1)	100% sequence identity to <i>B. microti</i> , Lab Strain 1 (GenBank: JGUW01000155.1)
Level of Parasitemia (pre-freeze)² 17 days of infection by microscopic counts of Giemsa-stained blood smears	Report results	44.5%
Viability^{1,3}	Growth in inoculated mouse	Growth in inoculated mouse

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 SCID mouse and examination of parasitemia every 2 to 5 days for 17 days post-infection (44.1% parasitemia).

Figure 1: Cellular Morphology



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