Certificate of Analysis for NR-44071

Babesia microti, Strain Nan-Hs-2011 (N11-50)

Catalog No. NR-44071

Product Description:

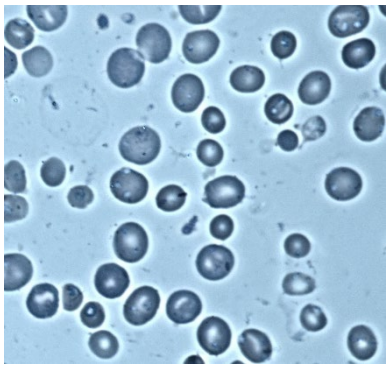
Babesia microti (B. microti), strain Nan-Hs-2011 (N11-50) was originally isolated in 2010 from blood obtained from a human case of babesiosis in Nantucket, Massachusetts, USA. Note: The strain designation on the vial label is incorrect. The correct strain designation is Nan-Hs-2011 (N11-50). NR-44071 was produced by intraperitoneal injection of BEI Resources seed lot 62177060 into one immunosuppressed Golden Syrian hamster. Infection was monitored for 21 days until parasitemia reached ≥ 1%. Infected blood was collected by cardiac puncture and used to inoculate five Golden Syrian hamsters. Infection was monitored for 13 days until the first peak of parasitemia was reached and infected blood was collected by cardiac puncture and pooled to produce this lot.

Lot: 70062614 **Manufacturing Date: 26OCT2023**

TEST	SPECIFICATIONS	RESULTS
Cellular Morphology[1] 21 days of infection by examination of Giemsa-stained blood smears	Report results	Ring-like structures visible (Figure 1)
Genotypic Analysis[2] Sequencing of internal transcribed spacer (ITS) 1, 5.8S rRNA gene, ITS 2 (~ 750 base pairs)	≥ 99% sequence identity to *B. microti*, Nan-Hs-2011 (N11-50) (GenBank: JGUV01000047.1)	99.9% sequence identity to *B. microti*, Nan-Hs-2011 (N11-50) (GenBank: JGUV01000047.1)
Level of Parasitemia (pre-freeze)[2] 13 days of infection by microscopic counts of Giemsa-stained blood smears	Report results	12.4%
Viability[1,3]	Growth in inoculated hamster	Growth in inoculated hamster

[1]Testing completed on vialed, post-freeze material
[2]Testing completed on bulk material prior to vialing and freezing
[3]Viability of the material following cryopreservation was determined by inoculation of one immunosuppressed and one non-immunosuppressed Golden Syrian hamster and examination of parasitemia every 7 days for 21 days post-infection. Parasitemia in the non-immunosuppressed hamster reached 38.3% at 21 days post-infection.

Figure 1: Cellular Morphology



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/Sonia Bjorum Brower/
Sonia Bjorum Brower 24 APR 2024
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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