Certificate of Analysis for NR-46440

Trypanosoma brucei subsp. *brucei,* Strain TREU 667

Catalog No. NR-46440

Product Description:

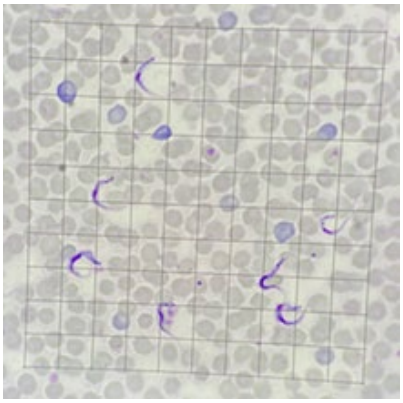
Trypanosoma brucei (T. brucei) subsp. *brucei*, strain TREU 667 (Trypanosomiasis Research Edinburgh University) was originally isolated in Kenya. NR-46440 was produced by inoculation of BEI Resources seed lot 62693032 into one BALB/c mouse. Infection was allowed to progress for 6 days until the first peak of parasitemia was reached. Infected blood was collected and used to inoculate each of 10 BALB/c mice with 0.2 mL of blood. Infection was allowed to progress for 4 days until the first peak of parasitemia was reached, and infected blood was collected from all 10 mice and pooled to produce this lot.

Lot: 70066139 **Manufacturing Date: 16MAR2024**

TEST	SPECIFICATIONS	RESULTS
Cellular Morphology[1] 4 days post-infection of one BALB/c mouse by examination of Giemsa-stained blood smears	Report results	Long and slender with flagella and kinetoplasts visible (Figure 1)
Genotypic Analysis[2]		
Sequencing of glycosomal NAD-dependent glycerol 3-phosphate dehydrogenase (GAPDH) gene (~ 890 base pairs)	Consistent with *T. brucei*	Consistent with *T. brucei*
Sequencing of glycosomal β-tubulin gene (~ 1170 base pairs)	Consistent with *T. brucei*	Consistent with *T. brucei*[3]
Level of Parasitemia[2] 4 days post-infection of one BALB/c mouse determined by microscopic counts of Giemsa-stained blood smears	≥ 1×10^6 parasites/mL	6.3×10^7 parasites/mL
Viability[1] 4 days post-infection of one BALB/c mouse determined by microscopic counts of Giemsa-stained blood smears	Growth in inoculated mouse	Growth in inoculated mouse

[1]Testing completed on vialed, post-freeze material.
[2]Testing completed on bulk material prior to vialing and freezing.
[3]Also consistent with *T. evansi* and/or *T. equiperdum*, which are putative subspecies of *T. brucei* (Lun, Z. R., et al. "*Trypanosoma brucei*: Two Steps to Spread Out from Africa." Trends Parasitol. 26 (2010): 424-427. PubMed: 20561822.)

Figure 1: Cellular Morphology



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/Sonia Bjorum Brower/
Sonia Bjorum Brower 29 JUL 2025
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