

***Trypanosoma brucei* subsp. *brucei*, Strain TREU 667 (in vitro procyclic form)**

Catalog No. NR-48851

Product Description: *Trypanosoma brucei* (*T. brucei*) subsp. *brucei*, strain TREU 667 (in vitro procyclic form) was harvested from the blood of infected BALB/c mice and adapted to cell culture by BEI Resources. The parent strain TREU 667 (available as BEI Resources NR-46440) was originally isolated in Kenya. The TREU 667 (Trypanosomiasis Research Edinburgh University) strain is a pleomorphic strain of low virulence to mice.

Lot¹: 62817460

Manufacturing Date: 24JUL2014

TEST	SPECIFICATIONS	RESULTS
Genotyping Sequencing of internal transcribed spacer (ITS) 1, 5.8S ribosomal RNA gene, ITS 2 (~ 460 base pairs)	Consistent with <i>T. brucei</i>	Consistent with <i>T. brucei</i> ²
Functional Activity by PCR Amplification ITS 1, 5.8S ribosomal RNA gene, ITS 2 ³	~ 1300 base pair amplicon	~ 1300 base pair amplicon
Viability (post-freeze)⁴	Growth	Growth
Sterility (21-day incubation) Harpo's HTYE broth ⁵ , 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

¹NR-48851 was produced by adaptation of *T. brucei* subsp. *brucei*, strain TREU 667 to *in vitro* growth in Trypanosome medium (ATCC[®] Medium 431) at 27°C in an aerobic atmosphere, followed by subculture in SDM-79 medium (Life Technologies, custom order part number ME090164 P1) adjusted to contain 10% (v/v) heat-inactivated fetal bovine serum (HIFBS) and 7.5 µg/mL hemin. The culture was propagated for 3 days at 27°C in an aerobic atmosphere.

²Also 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.)

³PCR was performed as described in Agbo, E. C., et al. "Measure of Molecular Diversity within the *Trypanosoma brucei* Subspecies *Trypanosoma brucei brucei* and *Trypanosoma brucei gambiense* as Revealed by Genotypic Characterization." *Exp. Parasitol.* 99 (2001): 123-131. PubMed: 11846522.

⁴Viable cells were seen after 5 days under cultivation conditions.

⁵Atlas, Ronald M. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

Date: 27 FEB 2015

Signature:



Title:

Technical Manager, BEI Authentication or designee

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