

***Trypanosoma brucei* subsp. *brucei*, Strain 927 1339 Cas9 TetR T7RNAP (procyclic form)**

Catalog No. NR-56792

Product Description:

Trypanosoma brucei (*T. brucei*) subsp. *brucei*, strain 927 1339 Cas9 TetR T7RNAP (procyclic form) was deposited to BEI Resources as a procyclic form, transgenic cell line expressing Cas9 nuclease, T7 RNA polymerase (T7RNAP) and tetracycline repressor (TetR) genes on plasmid pJ1339. Strain 927 1339 Cas9 TetR T7RNAP (procyclic form) was derived from strain TREU 927/4, which is a clone of strain GPAL/KE/70/EATRO 1534 that was isolated in 1970 from wild-caught *Glossina pallidipes* (tsetse flies) in Kiboko, Kenya. NR-56792 was produced by cultivation of the deposited material in SDM-79 medium (Life Technologies, custom order part number ME090164 P1) supplemented with 10% (v/v) heat-inactivated fetal bovine serum (HIFBS) and 7.5 µg/mL hemin for 3 days at 27°C in an aerobic atmosphere.

Lot: 70056025

Manufacturing Date: 14NOV2022

TEST	SPECIFICATIONS	RESULTS
Cell Morphology¹ 1 day at 27°C in an aerobic atmosphere in SDM-79 medium supplemented with 10% HIFBS and 7.5 µg/mL hemin	Report results	Elongated, crescent-shaped and refractive
Genotypic Analysis² Sequencing of 18S ribosomal RNA gene (~ 880 base pairs)	≥ 99% sequence identity to <i>T. brucei</i> subsp. <i>brucei</i> , strain TREU 927 (NCBI RefSeq Assembly: GCF_000002445.2)	100% sequence identity to <i>T. brucei</i> subsp. <i>brucei</i> , strain TREU 927 (NCBI RefSeq Assembly: GCF_000002445.2) ³
Viable Cell Count by Hemacytometry²	> 10 ⁶ cells per mL	4.1 × 10 ⁸ cells per mL
Viability¹ 1 day at 27°C in an aerobic atmosphere in SDM-79 medium supplemented with 10% HIFBS and 7.5 µg/mL hemin	Growth	Growth
Sterility (21-day incubation)¹ Harpo's HTYE broth, 37°C and 26°C, aerobic ⁴ Trypticase soy broth, 37°C and 26°C, aerobic Sabouraud broth, 37°C and 26°C, aerobic DMEM with 10% FBS, 37°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

¹Testing completed on vial, post-freeze material.

²Testing completed on bulk material prior to vialing and freezing.

³Also 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.)

⁴Atlas, Ronald M. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

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24 OCT 2023

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