

# **Certificate of Analysis for NR-56793**

## Trypanosoma brucei subsp. brucei, Strain 427 1339 Cas9 TetR T7RNAP (bloodstream form)

### Catalog No. NR-56793

#### **Product Description:**

Trypanosoma brucei (T. brucei) subsp. brucei, strain 427 1339 Cas9 TetR T7RNAP (bloodstream form) was deposited to BEI Resources as a bloodstream form, transgenic cell line expressing Cas9 nuclease, T7 RNA polymerase (T7RNAP) and tetracycline repressor (TetR) genes on plasmid pJ1339. Strain 427 1339 Cas9 TetR T7RNAP (bloodstream form) was derived from strain Lister 427, a virulent lab strain that was isolated in 1960 from a sheep in Uganda and transferred to the Lister Institute in London in 1961. NR-56793 was produced by cultivation of the deposited material in modified HMI-9 medium supplemented with 10% heat-inactivated fetal bovine serum (HIFBS) for 4 days at 37°C in an aerobic atmosphere with 5% CO<sub>2</sub> to produce this lot.

Lot: 70056027 Manufacturing Date: 18OCT2022

TEST	SPECIFICATIONS	RESULTS
Cell Morphology <sup>1</sup> 2 days at 37°C in an aerobic atmosphere with 5% CO <sub>2</sub> in modified HMI-9 medium supplemented with 10% HIFBS	Report results	Elongated, motile and refractive
Genotypic Analysis <sup>2</sup> Sequencing of 18S ribosomal RNA gene (~ 870 base pairs)	≥ 99% sequence identity to <i>T. brucei</i> , strain Lister 427 (GenBank: UFQF01000036.1)	99.9% sequence identity to <i>T. brucei</i> , strain Lister 427 (GenBank: UFQF01000036.1) <sup>3</sup>
Viable Cell Count by Hemacytometry <sup>1</sup>	> 10 <sup>6</sup> cells per mL	1.7 × 10 <sup>7</sup> cells per mL
Viability <sup>1</sup> 2 days at 37°C in an aerobic atmosphere in modified HMI-9 medium supplemented with 10% HIFBS	Growth	Growth
Sterility (21-day incubation) <sup>1</sup>		
Harpo's HTYE broth, 37°C and 26°C, aerobic <sup>4</sup>	No growth	No growth
Trypticase soy broth, 37°C and 26°C, aerobic	No growth	No growth
Sabouraud broth, 37°C and 26°C, aerobic	No growth	No growth
DMEM with 10% FBS, 37°C, aerobic	No growth	No growth
Sheep blood agar, 37°C, aerobic	No growth	No growth
Sheep blood agar, 37°C, anaerobic	No growth	No growth
Thioglycollate broth, 37°C, anaerobic	No growth	No growth

<sup>&</sup>lt;sup>1</sup>Testing completed on vialed, post-freeze material.

### /Sonia Bjorum Brower/ Sonia Bjorum Brower

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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.

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<sup>&</sup>lt;sup>2</sup>Testing completed on bulk material prior to vialing and freezing.

<sup>&</sup>lt;sup>3</sup>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." <u>Trends Parasitol.</u> 26 (2010): 424-427. PubMed: 20561822.)

<sup>&</sup>lt;sup>4</sup>Atlas, Ronald M. Handbook of Microbiological Media. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.