

***Trypanosoma brucei* subsp. *brucei*, Strain Lister 427 VSG 221 (bloodstream form)**

Catalog No. NR-42009

Product Description: *Trypanosoma brucei* (*T. brucei*) subsp. *brucei*, strain Lister 427 VSG 221 was deposited to BEI Resources as a bloodstream form cell line that expresses the *T. brucei* variant surface glycoprotein (VSG) 221 (also referred to as MITat 1.2). Strain Lister 427 VSG 221 is a single-antigen isolate of strain Lister 427.

Lot¹: 61708726

Manufacturing Date: 22APR2013

TEST	SPECIFICATIONS	RESULTS
Genotyping Sequencing of 18S ribosomal RNA gene (~ 1680 base pairs) Sequencing of and internal transcribed spacer (ITS) 1, 5.8S ribosomal RNA gene, ITS 2 (~ 930 base pairs)	Consistent with <i>T. brucei</i> Consistent with <i>T. brucei</i>	Consistent with <i>T. brucei</i> Consistent with <i>T. brucei</i>
Functional Activity by PCR Amplification² 18S ribosomal RNA gene ITS 1, 5.8S ribosomal RNA gene, ITS 2	~ 2200 base pair amplicon ~ 1300 base pair amplicons	~ 2200 base pair amplicon ~ 1300 base pair amplicons
Presence of T7 RNA Polymerase and Tetracycline Repressor (TetR/T7RNAP)	Negative	Negative
Viable Cell Count by Hemacytometry (pre-freeze)	> 10 ⁶ cells/mL	1.4 x 10 ⁷ cells/mL
Viability (post-freeze)³	Growth	Growth
Sterility (21-day incubation) Harpo's HTYE broth ⁴ , 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-42009 was produced by cultivation of the deposited material in modified HMI-9 medium. The culture was propagated in 95% air, 5% CO₂ for 6 days at 37°C.

²PCR 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.

³Viable cells were seen after 4 days under cultivation conditions.

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

Date: 16 JAN 2014

Signature:



Title:

Technical Manager, BEI Authentication or designee

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