

***Trypanosoma cruzi*, Strain Brazil (+*luc*) (axenic epimastigote)**

Catalog No. NR-46429

Product Description:

The epimastigote stage of *Trypanosoma cruzi* (*T. cruzi*), strain Brazil (+*luc*) was established from the trypomastigote form (BEI Resources NR-40347) through multiple passages in culture. The Brazil (+*luc*) strain is a luciferase-expressing transgenic clone derived from the Brazil strain, which was isolated from a human patient in Brazil. An axenic epimastigote culture was established from NR-40347 (trypomastigote form), initially cultured in Vero cells (ATCC® CCL-26™), over multiple passages in Liver Infusion Tryptose (LIT) medium (ATCC® Medium 1029: adjusted to contain 10% heat-inactivated fetal bovine serum) at 25°C in an aerobic atmosphere, and frozen. NR-46429 was produced by cultivation of the thawed epimastigote culture in LIT medium. After two passages, the culture was propagated for 3 days under cultivation conditions. The presence and activity of the luciferase gene were confirmed for the parent culture, NR-40347.

Lot: 62415821

Manufacturing Date: 21FEB2014

TEST	SPECIFICATIONS	RESULTS
Genotypic Analysis Sequencing of 18S ribosomal RNA gene (~ 1520 base pairs)	Consistent with <i>T. cruzi</i>	Consistent with <i>T. cruzi</i> ¹
Functional Activity by PCR Amplification 18S ribosomal RNA gene	~ 2200 base pair amplicon	~ 2200 base pair amplicon
Viable Cell Count by Hemacytometry (pre-freeze)	> 10 ⁶ cells per mL	2.8 × 10 ⁸ cells per mL
Viability (post-freeze)²	Growth	Growth
Sterility (21-day incubation) Harpo's HTYE broth, 37°C and 26°C, aerobic ³ 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

¹Also consistent with other *Trypanosoma* species

²Viable cells and signs of infection were seen after 3 days under cultivation conditions.

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

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