

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

Catalog No. NR-46429

Product Description: The epimastigote stage of *Trypanosoma cruzi* (*T. cruzi*), Y strain (+*luc*) was established from the trypomastigote form (BEI Resources NR-40347) through multiple passages in culture. The Y strain (+*luc*) is a luciferase-expressing transgenic clone derived from the pathogenic Y strain, which was originally isolated from the blood of a Chagas' disease patient prior to 1953 in Brazil.

Lot^{1,2}: 62415821

Manufacturing Date: 21FEB2014

TEST	SPECIFICATIONS	RESULTS
Genotyping Sequencing of 18S ribosomal RNA gene (~ 1520 base pairs)	Consistent with <i>T. cruzi</i>	Consistent with <i>T. cruzi</i> ³
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/mL	2.8 x 10 ⁸ cells/mL
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

¹An 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.

²The presence and activity of the luciferase gene were confirmed for the parent culture, NR-40347.

³Also consistent with other *Trypanosoma* species

⁴Viable cells and signs of infection were seen after 3 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: 25 JUL 2014

Signature: 

Title: Technical Manager, BEI Authentication or designee

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