

Genomic DNA from *Trypanosoma brucei* subsp. *brucei*, Strain STIB 247 (*in vitro* procyclic form)

Catalog No. NR-49829

Product Description: Genomic DNA was isolated from *Trypanosoma brucei* (*T. brucei*) subsp. *brucei*, strain STIB 247 (*in vitro* procyclic form). The bloodstream form of strain STIB 247 was originally isolated from a hartebeest in Serengeti National Park, Serengeti, Tanzania, in 1971.

Lot¹: 63681653

Manufacturing Date: 13JUL2015

TEST	SPECIFICATIONS	RESULTS
Genotypic Analysis Sequencing of internal transcribed spacer (ITS) 1, 5.8S ribosomal RNA (rRNA) gene, ITS 2 (~ 1290 base pairs) Serum resistance-associated gene (SRA) (~ 600 base pairs)	Consistent with <i>T. brucei</i> No amplicon produced	Consistent with <i>T. brucei</i> ² No amplicon produced ³
Agarose Gel Electrophoresis	High molecular weight chromosomal DNA	High molecular weight chromosomal DNA (Figure 1)
Content by PicoGreen[®] Measurement	1 to 3 µg in 25 to 100 µL per vial	3 µg in 52 µL per vial (48 µg/mL)
PCR Assay of Extracted DNA ITS 1, 5.8S rRNA gene, ITS 2 ⁴	~ 1300 base pair amplicon	~ 1300 base pair amplicon
OD₂₆₀/OD₂₈₀ Ratio	1.7 to 2.1	2.0
Protozoan Inactivation 10% of total yield plated on SDM-79 medium ⁵	No viable organisms detected	No viable organisms detected

¹Genomic DNA was extracted from the procyclic forms of the organism using proprietary technology.

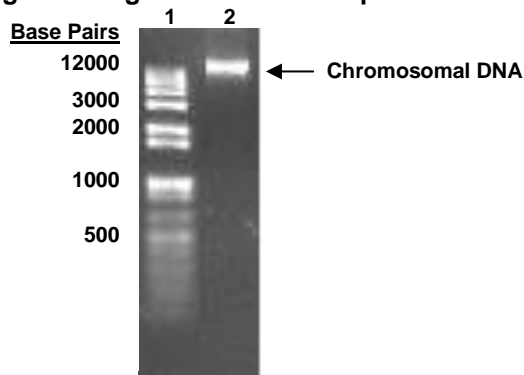
²Also consistent with *T. evansi* and/or *T. equiperdum*, which are putative subspecies of *T. brucei* (Lun, Z. R., et al. "Trypanosoma brucei: Two Steps to Spread Out from Africa." *Trends Parasitol.* 26 (2010): 424-427. PubMed: 20561822.).

³The SRA gene is specific to subspecies *rhodesiense* so no amplicon is expected, refer to: Radwanska, M., et al. "The Serum Resistance-Associated Gene as a Diagnostic Tool for the Detection of *Trypanosoma brucei rhodesiense*." *Am. J. Trop. Med. Hyg.* 67 (2002): 684-690. PubMed: 12518862.

⁴Primer sequences and conditions for PCR are available upon request.

⁵Incubated in SDM-79 medium (Life Technologies, custom order part number ME090164 P1) adjusted to contain 10% (v/v) heat-inactivated fetal bovine serum (HIFBS) and 7.5 µg/mL hemin for 14 days at 26°C in an aerobic atmosphere.

Figure 1: Agarose Gel Electrophoresis



Lane 1: Invitrogen™ TrackIt 1 Kb Plus DNA Ladder™
 Lane 2: ~ 200 ng of NR-49829

Date: 02 FEB 2017

Signature:



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