b|e|i RESOURCES
SUPPORTING INFECTIOUS DISEASE RESEARCH

Certificate of Analysis for NR-49828

Genomic DNA from *Trypanosoma brucei* subsp. *rhodesiense*, Strain KETRI 243 (*in vitro* procyclic form)

Catalog No. NR-49828

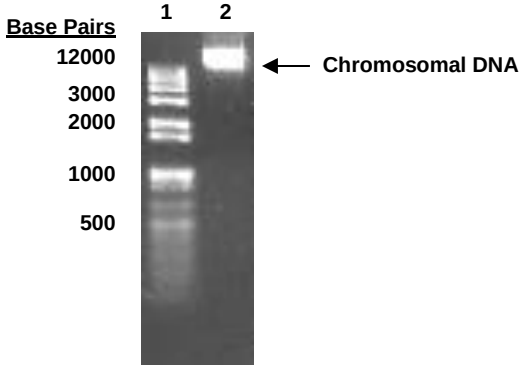
Product Description: Genomic DNA was isolated from *Trypanosoma brucei* (*T. brucei*) subsp. *rhodesiense*, strain KETRI 243 (*in vitro* procyclic form). The bloodstream form of strain KETRI 243 was originally isolated in Busoga, Uganda, in 1961.

Lot[1]: 63681648 **Manufacturing Date: 15JUL2015**

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) (~ 560 base pairs)	Consistent with *T. brucei* Consistent with *T. brucei* subsp. *rhodesiense*	Consistent with *T. brucei*[2] Consistent with *T. brucei* subsp. *rhodesiense*[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	8 µg in 65 µL per vial (129 µg/mL)[4]
PCR Assay of Extracted DNA ITS 1, 5.8S rRNA gene, ITS 2[5]	~ 1300 base pair amplicon	~ 1300 base pair amplicon
OD_{260}/OD_{280} Ratio	1.7 to 2.1	2.0
Protozoan Inactivation 10% of total yield plated on SDM-79 medium[6]	No viable organisms detected	No viable organisms detected

[1]Genomic DNA was extracted from the procyclic forms of the organism using proprietary technology.
[2]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." Trends Parasitol. 26 (2010): 424-427. PubMed: 20561822.).
[3]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.
[4]The amount of genomic DNA provided is above current specifications for this lot.
[5]Primer sequences and conditions for PCR are available upon request.
[6]Incubated 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: ~ 650 ng of NR-49828

BEI Resources
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Certificate of Analysis for NR-49828

Date: 02 FEB 2017 **Signature:** 

BEI Resources Authentication

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.

Support Provided by NIAID

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