

***Trypanosoma brucei* subsp. *rhodesiense*, Strain KETRI 243**

Catalog No. NR-46431

Product Description: *Trypanosoma brucei* (*T. brucei*) subsp. *rhodesiense*, strain KETRI 243 was isolated in 1961 from cerebral spinal fluid of a patient who had failed melarsoprol therapy in Busoga, Uganda. *T. brucei* subsp. *rhodesiense*, strain KETRI 243 was obtained by Professor C. J. Bacchi from the Kenya Trypanosomiasis Research Institute (KETRI) strain bank at Mugaga, Kenya.

Lot¹: 63567609

Manufacturing Date: 16JUN2015

TEST	SPECIFICATIONS	RESULTS
Genotyping Sequencing of internal transcribed spacer (ITS) 1, 5.8S ribosomal RNA gene, ITS 2 (~ 290 base pairs)	Consistent with <i>T. brucei</i>	Consistent with <i>T. brucei</i> ²
Functional Activity by PCR Amplification ITS 1, 5.8S ribosomal RNA gene, ITS 2 ³	~ 1300 base pair amplicon	~ 1300 base pair amplicon
Level of Parasitemia (pre-freeze)⁴	≥ 1 × 10 ⁶ parasites per mL	9 × 10 ⁷ parasites per mL
Viability (post-freeze)⁵	Growth in inoculated mouse	Growth in inoculated mouse

¹NR-46431 was produced by inoculation of the deposited material into a BALB/c mouse. Infection was allowed to progress for 4 days until the first peak of parasitemia was reached. Infected blood was collected by orbital bleeding and used to inoculate seven BALB/c mice. Infection was allowed to progress for 4 days until the first peak of parasitemia was reached and infected blood was collected by orbital bleeding.

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.)

³PCR 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.

⁴Parasitemia was determined after 4 days of infection by microscopic counts using a haemocytometer and 0.85% ammonium chloride as diluent.

⁵Viability of trypanosomes was confirmed by examination of a BALB/c mouse for parasitemia at daily intervals for 4 days post-infection.

Date: 30 NOV 2015

Signature: 

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