

Genomic DNA from *Glossina palpalis* subsp. *gambiensis*

Catalog No. NR-44341

For research use only. Not for human use.

Contributor and Manufacturer:

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Product Description:

Genomic DNA was obtained from a preparation of *Glossina palpalis* (*G. palpalis*; tsetse fly) subsp. *gambiensis* using a TRIzol® (Life Technologies™) extraction protocol. **Note: The subspecies designation on the vial label for lot 62060851 is incorrect. The correct subspecies designation is *gambiensis*.**

The original *G. palpalis* subsp. *gambiensis* colony was established from Sidaradougou, Burkina Faso.¹ The colony was transferred to Yale University via the Bristol Laboratory, United Kingdom and Peter Takac, Slovakia.¹ The whole genome shotgun sequence of a representative *G. palpalis* subsp. *gambiensis* colony is available (GenBank: [JXJN00000000](#)).

Protocol:

The control PCR amplification parameters for *Glossina* spp. internal transcribed spacer 2 (ITS-2) are 1 min. at 94°C, 55°C, and 72°C, for 35 cycles in a buffer containing 2.5 mM MgCl₂, 0.25 mM dNTPs, and 500 nM concentration of each primer with Taq polymerase in a DNA thermal cycler. DNA corresponding to the ITS-2 region was amplified using the oligonucleotide primer set ITS-2F/ITS-2R corresponding to the *Anopheles gambiae* mosquito 5.8S and 28S rDNA conserved sequences (GenBank: X67157)²:

ITS-2F: 5'-TGTGAACTGCAGGACACATGAAC-3'
ITS-2R: 5'-AATGCTTAAATTTAGGGGTAGTC-3'.

Material Provided:

Each vial of NR-44341 contains approximately 2.5 µg of genomic DNA at 50 ng per µL in TE buffer (10 mM Tris-HCl, 1 mM EDTA, pH 8.0). The concentration is shown on the Certificate of Analysis. The vial should be centrifuged prior to opening.

Packaging/Storage:

NR-44341 was packaged in cryovials. The product is provided frozen and should be stored at -20°C or colder immediately upon arrival. Freeze-thaw cycles should be minimized.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Genomic DNA from *Glossina palpalis* subsp. *gambiensis*, NR-44341."

Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. Biosafety in Microbiological and Biomedical Laboratories. 5th ed. Washington, DC: U.S. Government Printing Office, 2009; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

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References:

1. Aksoy, S., Personal Communication.
2. Chen, X., S. Li and S. Aksoy. "Concordant Evolution of a Symbiont with Its Host Insect Species: Molecular Phylogeny of Genus *Glossina* and Its Bacteriome-Associated Endosymbiont, *Wigglesworthia glossinidia*." *J. Mol. Evol.* 48 (1999): 49-58. PubMed: 9873076.

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