

Product Information Sheet for MRA-1155B

SUPPORTING INFECTIOUS DISEASE RESEARCH

Anopheles quadriannulatus, Strain SANGWE, Bulk Frozen

Catalog No. MRA-1155B

For research use only. Not for human use.

Contributor:

Willem Takken, Ph.D., Professor, Department of Entomology, Wageningen University, the Netherlands

Manufacturer:

Centers for Disease Control and Prevention (CDC), Atlanta, Georgia, USA

Product Description:

<u>Classification</u>: Culicidae, *Anopheles* <u>Species</u>: *Anopheles quadriannulatus*

Strain: SANGWE (deposited in November 2010 as Anopheles

quadriannulatus A, SANGQUA)1

<u>Original Source</u>: The <u>Anopheles quadriannulatus</u> (An. quadriannulatus), strain SANGWE colony originated from female mosquitoes collected in 1999 by Dr. Richard Hunt near the Sabi River in Sangwe, Zimbabwe. 1,2 Eggs from these females were used to establish the colony, which was maintained by membrane feeding using cattle blood. 1,2

<u>Comments</u>: The wild-type SANGWE strain was karyotyped as 2L+; Xf+/f heterozygous.³ The complete genome of *An. quadriannulatus*, strain SANGWE is being sequenced (BioProject: <u>PRJNA67511</u>).³

<u>Applications</u>: MRA-1155B is suitable for DNA and RNA isolation, protein extraction, etc.

Material Provided:

Each tube of MRA-1155B contains at least 100 adult male and female wild-type *An. quadriannulatus*, strain SANGWE mosquitoes⁵, which were preserved in liquid nitrogen (quick-frozen) while alive.

Packaging/Storage:

MRA-1155B is prepared and shipped by CDC. The product is provided frozen and should be stored at -80°C or colder immediately upon arrival.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: *Anopheles quadriannulatus*, Strain SANGWE, Bulk Frozen, MRA-1155B, contributed by Willem Takken."

Biosafety Level: 1

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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. Takken, W., Personal Communication.
- Pates, H. V., et al. "Unexpected Anthropophagic Behaviour in Anopheles quadriannulatus." <u>Med. Vet.</u> Entomol. 15 (2001): 293-298. PubMed: 11583447.
- Neafsey, D. E., et al. "Mosquito Genomics. Highly Evolvable Malaria Vectors: The Genomes of 16 Anopheles Mosquitoes." <u>Science</u> 347 (2015): 1258522. PubMed: 25554792.
- For details on authentication methods used to confirm the identity of the SANGWE stock, please refer to: <u>Methods</u> <u>in Anopheles Research</u>.

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BEI Resources E-mail: contact@beiresources.org

Tel: 800-359-7370 Fax: 703-365-2898