Product Information Sheet for MRA-1326

Anopheles stephensi, Strain SDA-500, Eggs

Catalog No. MRA-1326

For research use only. Not for use in humans.

Contributor:
Peter F. Billingsley, Sanaria Inc., Rockville, Maryland, USA

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

Product Description:
Protozoa Classification: *Culicidae, Anopheles*
Species: *Anopheles stephensi*
Strain: SDA-500 [internally designated as SDA-500 (9800)]
Original Source: *Anopheles stephensi (An. stephensi)*, strain SDA-500 was originally isolated in 1982 in Sindh Province, Pakistan.[1]
Comments: *An. stephensi,* strain SDA 500 is highly susceptible to the human malaria parasite *Plasmodium falciparum (P. falciparum)* and is known to transmit *P. falciparum*, *P. vivax*, *P. berghei*, *P. yoelii*, and *P. chabaudi*.[1] A near-chromosome level genome assembly of *An. stephensi* strain SDA 500 is available.[2]

Material Provided:
MRA-1326 contains a suitable number of eggs to establish a stock. Eggs are provided on damp filter paper and should be hatched immediately upon receipt.

Packaging/Storage:
MRA-1326 is prepared and shipped by CDC. The product is provided at room temperature.

Growth Conditions:
Standard *An. Stephensi* rearing methods are recommended.[3]

Citation:
Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: *Anopheles stephensi,* Strain SDA-500, Eggs, MRA-1326, contributed by Peter F. Billingsley."

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 (BMBL). 6th ed. Washington, DC: U.S. Government Printing Office, 2020.

Disclaimers:
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References:
1. Feldmann, A. M. and T. Ponnudurai. "Selection of *Anopheles stephensi* for Refractoriness and Susceptibility to *Plasmodium falciparum*." Med. Vet. Entomol. 3 (1989): 41-52. PubMed: 2519646.
2. Chida, A. R. et al. "A Near-Chromosome Level Genome Assembly of *Anopheles stephensi*." Front. Genet. 11 (2020): PubMed: 33312190.
3. Glick, J. I. "Illustrated Key to the Female *Anopheles* of Southwestern Asia and Egypt (Diptera: Culicidae)." Mosq. Syst. 24 (1992): 125-153.
4. James, E. R. et al. "Cryopreservation of *Anopheles stephensi* Embryos." Sci. Rep. 12 (2022): PubMed: 34997079.

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