

# **Product Information Sheet for MRA-353**

## Plasmodium simium, Strain Howler

## Catalog No. MRA-353

This reagent is the tangible property of the U.S. Government.

## For research use only. Not for human use.

## **Contributor and Manufacturer:**

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## **Product Description:**

Protozoa Classification: Plasmodiidae, Plasmodium

Species: Plasmodium simium

Strain: Howler

Original Source: Plasmodium simium (P. simium), strain Howler was isolated by L. M. Deane in 1966 from howler monkey (Alouatta fusca) in southeast Brazil.<sup>1,2</sup>

<u>Comment</u>: MRA-353 was authenticated by the contributor and deposited in owl monkey (*Aotus nancymai*) blood.<sup>2</sup>

*P. simium* is a protozoan parasite from New World monkeys that shares close relationships to *Plasmodium vivax*; it also naturally infects humans and is commonly used in molecular evolution studies of malaria.<sup>2-4</sup>

### **Material Provided:**

Each vial of MRA-353 contains approximately 1.0 mL of *P. simium*-infected monkey blood in Glycerolyte solution (1:1.66) at a concentration of > 1,000,000 parasites per vial. This item is host restricted and must be amplified in monkeys.

## Packaging/Storage:

MRA-353 was packaged aseptically in cryovials. The product is provided frozen and should be stored at -80°C or colder immediately upon arrival. For long-term storage, the vapor phase of a liquid nitrogen freezer is recommended (-130°C or colder). Freeze-thaw cycles should be avoided.

## **Growth Conditions<sup>2-4</sup>:**

In vivo, howler monkey

Alternate host: Aotus trivirgatus, Saimiri sciureus

#### Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: *Plasmodium simium*, Strain Howler, MRA-353, contributed by William E. Collins."

## **Biosafety Level: 2**

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.

All blood cultures should be handled with appropriate safety precautions necessary for the handling of bloodborne pathogens. Personnel must be trained in accordance with their institutional policy regarding bloodborne pathogens.

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### References:

- Da Fonseca, F. "[Plasmodium of a Primate of Brazil]." <u>Mem. Inst. Oswaldo Cruz</u> 49 (1951): 543-553. PubMed: 14890537.
- 2. Collins, W. E., Personal Communication.
- Collins, W. E., P. G. Contacos and E. G. Guinn. "Observations on the Sporogonic Cycle and the Transmission of *Plasmodium simium* da Fonseca." <u>J. Parasitol.</u> 55 (1969): 814-816. PubMed: 4390413.
- 4. "Plasmodium simium." In The Primate Malarias. (2003) Eds. G. R. Coatney, W. E. Collins, McW. Warren and P. G. Contacos, CDC: Atlanta, pp. 153-162.

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