

GeNei™ Amplification Reagents Set for Malarial Parasites *(Plasmodium falciparum and Plasmodium vivax)*

Malaria is one of the main health problems worldwide. It is estimated that it affects around 500 million people, of which 2.5 million die per year. Early detection, as well as species identification, is a must for an accurate treatment.

The standard method for detecting plasmodium infection is the microscopic examination of Giemsa-stained thick blood smear. Although this method is effective and inexpensive, but its laborious, time consuming and sensitivity is very less.

Recently, alternative diagnostic method, such as PCR, have been used for the detection and identification of malarial parasites. This assay detects parasites in mixed and low level infection, being more sensitive than conventional methods.

Genei Amplification reagent set based on the principle of nested PCR targeting the 18S small subunit ribosomal RNA (ssrRNA) gene and is used for the identification of *Plasmodium falciparum* and *Plasmodium vivax* species.

Highlights:

- Spin Column based DNA extraction for effective removal of PCR inhibitors from the DNA sample.
- Based on the principle of nested PCR for increased specificity and sensitivity.
- Convenient aliquots of reagents to reduce the chances of contamination.
- Results obtained in 5 hrs.

Materials Provided:

Reagents for DNA Extraction

- Lysis Buffer (For Blood)
- Proteinase K
- Wash Buffer I (Concentrate)
- Wash Buffer II (Concentrate)
- Elution Buffer
- Spin Columns
- Collection Tubes

Reagents for Amplification

- I Amplification Pre-mix
- II Amplification Pre-mix
- Taq DNA Polymerase
- Positive Control DNA 1
- Positive Control DNA 2
- DNA Molecular Weight Marker
- Gel Loading Buffer
- Dilution Buffer

Note: For Research use only. Not for diagnostic applications.

Ordering Information:

| Catalogue Number | Product | Pack Size |
|--|---|-----------|
| GeNei™ Amplification Reagents Set for Malarial Parasites <i>(Plasmodium falciparum and Plasmodium vivax)</i> | | |
| 116686 | GeNei™ Amplification Reagents set for Malarial Parasites (<i>Plasmodium falciparum</i> and <i>Plasmodium vivax</i>) (for 25 Tests) | 1 Pack |
| 116693 | GeNei™ Amplification Reagents set for Malarial Parasites (<i>Plasmodium falciparum</i> and <i>Plasmodium vivax</i>) (for 50 Tests) | 1 Pack |

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