



## VereFever™

### Speed

- Turnaround time of less than 3 hours

### Comprehensive

- Tests for 14 vector-borne pathogens

### Accurate

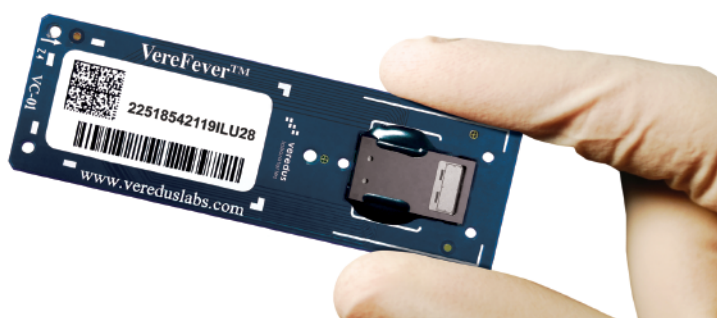
- Highly specific primers and probes
- Target probes are replicated on the microarray
- No cross-reactivity between closely related target pathogens

### Mobile

- The VerePLEX™ Biosystem is designed to be portable

### Flexible and Scalable

- Random access
- For higher throughput, up to 5 VerePLEX™ Biosystems can be configured as one unit



A **Lab-on-Chip (LOC) platform** that allows for qualitative detection, differentiation and identification of multiple vector-borne pathogens including Dengue Virus, Zika Virus, West Nile Virus, Japanese Encephalitis Virus, Yellow Fever Virus, Chikungunya Virus and Malaria

### Targets

#### Dengue Virus

- DENV 1
- DENV 2
- DENV 3
- DENV 4

#### Malaria

- *Plasmodium falciparum*
- *Plasmodium vivax*
- *Plasmodium malariae*
- *Plasmodium ovale*
- *Plasmodium knowlesi*

Zika Virus

West Nile Virus

Japanese Encephalitis Virus

Yellow Fever Virus

Chikungunya Virus

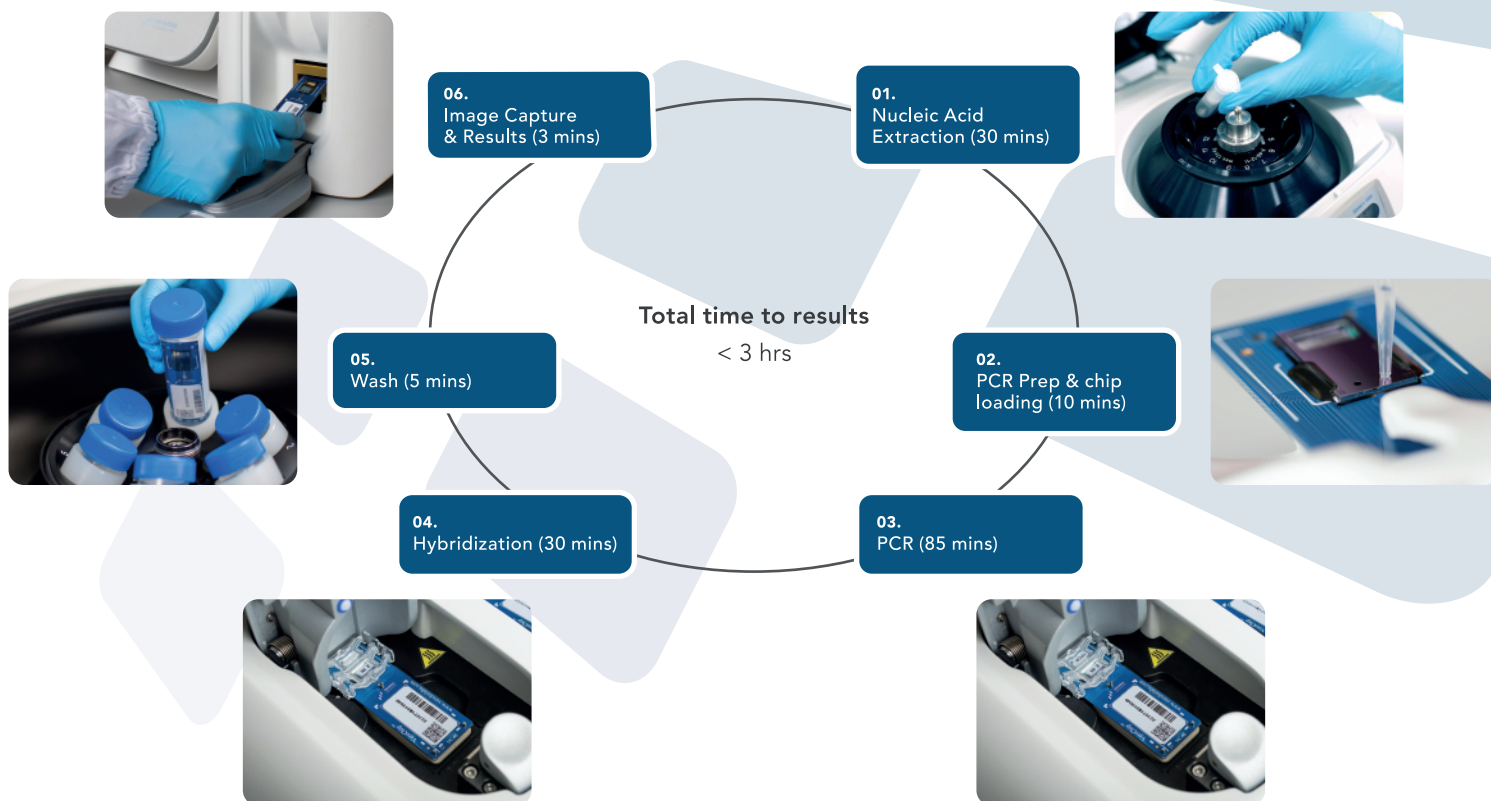
### Sample Type

Whole Blood, Serum

### Features

- Multiplex assay: 14 targets, PCR and hybridization controls all in one test
- High sensitivity

## Workflow



## Multiplexing Simplified

**VerePLEX™ Biosystem** combines molecular biology, microfluidics and microelectronics to bring the future of diagnostics and surveillance to you today. The VerePLEX™ Biosystem, along with the VereChip™, is a breakthrough innovation, integrating two powerful molecular biology technologies: PCR and Microarray.

VerePLEX™ Biosystem includes the following components:

- Temperature Control System
- Optical Reader
- Touch Monitor
- Barcode Reader
- VerePLEX™ Biosystem Software

