



VereMTB™

- **Speed**

DNA samples to results in less than 3 hours

- **Comprehensive**

Tests for MTBC, 9 clinically relevant NTMs as well as resistance to Rifampicin and Isoniazid in a single assay

- **Accurate**

Target probes are replicated 3 times on the microarray

- **Mobile**

The VerePLEX™ Biosystem is designed to be portable

- **Easy-to-use**

The simple workflow allows for minimally trained or non-scientific personnel to run tests

- **Flexible and Scalable**

The 5 modules on the VerePLEX™ Biosystem can be randomly accessed. For higher throughput, up to 5 VerePLEX™ Biosystems can be configured as one unit

- **Updates available**

Probes can be updated quickly to include new mutations, ensuring the right coverage of detection

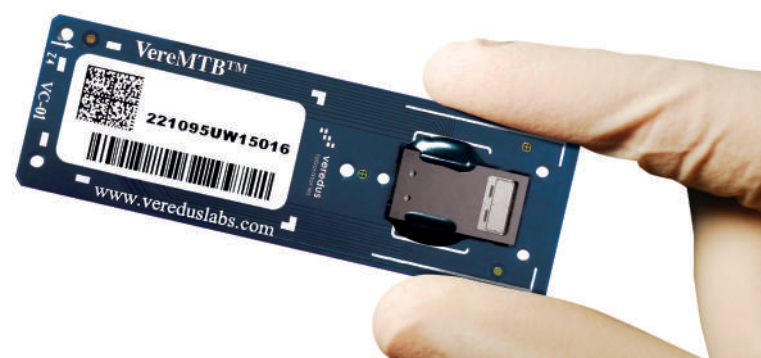
A Lab-on-Chip (LOC) platform that allows for simultaneous detection, differentiation and identification of Mycobacterium tuberculosis complex (MTBC) and its resistance to Rifampicin and Isoniazid as well as 9 clinically relevant nontuberculous mycobacteria (NTM) species

Targets

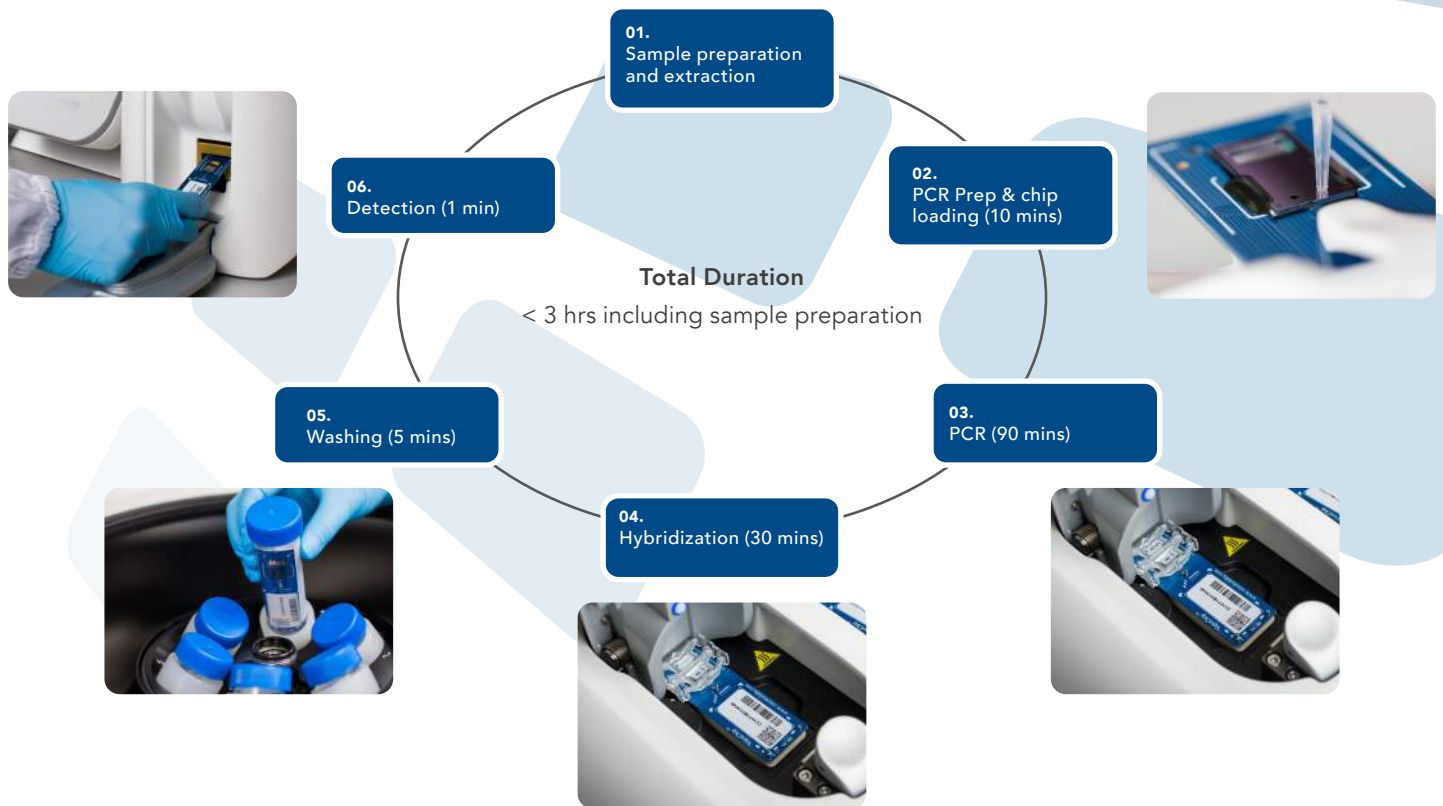
- Mycobacterium tuberculosis complex
- Rifampicin resistance
- Isoniazid resistance
- *Mycobacterium avium*
- *Mycobacterium intracellulare*
- *Mycobacterium simiae / kansasii / scrofulaceum*
- *Mycobacterium abscessus / chelonae*
- *Mycobacterium xenopi*
- *Mycobacterium fortuitum*

Sample Type

Sputum for MTBC, culture samples for NTM



Workflow



Multiplexing Simplified



VerePLEX™ Biosystem

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 in innovation, integrating two powerful molecular biological technologies: PCR and Microarray.

VerePLEX™ Biosystem includes the following components:

- Temperature Control System (5 random access modules)
- Optical Reader
- Biosystem Software
- Barcode Reader
- Touch Monitor