Hotgen

Mycobacterium Tuberculosis Complex Nucleic Acid Test

(Isothermal Amplification-Colloidal Gold Method)

Feature

High Specificity Capable of directly amplifying specific DNA or abnormal gene fragments.

High Sensitivity Able to detect trace amounts of DNA, with a detection limit as low as 500 CFU/mL, effectively reducing the risk of missed diagnoses.

Rapid and Visual Results From sample preparation to results in just 20 minutes, with an intuitive visual readout.

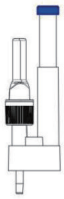
Room Temperature Storage and Transportation Easy to store and convenient for logistics.

Detection principle

The Mycobacterium tuberculosis complex primarily includes Mycobacterium tuberculosis, Mycobacterium bovis, Mycobacterium africanum, and Mycobacterium microti.

This kit combines MIRA (Multienzyme Isothermal Rapid Amplification) isothermal amplification technology with nucleic acid chromatography test strips, enabling visual detection of the Mycobacterium tuberculosis complex.

Reagent Kit



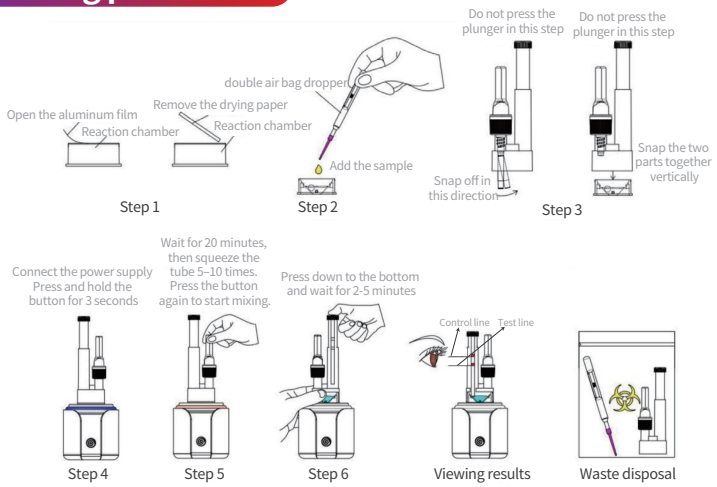
Test strip assembly

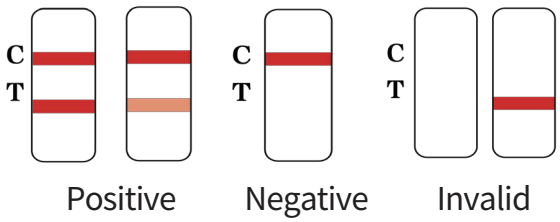
Reaction chamber assembly

Analyzer

Pocket Detection Guardian
(Reagent Card Incubator WL-HC-1A)

Testing procedures





Example of results

Product information

Products	Abbreviation	Limit of detection	Specimen	Certification	Specifications
Mycobacterium tuberculosis complex nucleic acid test (isothermal amplification-colloidal gold method)	TB-MIRA	500 CFU/mL	Tongue swab	/	10 T/Kit

Application scenario: For auxiliary diagnosis of tuberculosis.

INSTRUMENT

Pocket Detection Guardian

Nucleic Acid Detection System

Feature

Reliable The detection sensitivity can reach to 1 copy after 20 mins amplification.

Safe The cartridge is a disposable detection consumable. Fully enclosed operation, no aerosol contamination.

Simple Easy to operate in 3 steps for test.

On-site A "Mobile Lab" with power bank. No need Lab environment. Ideal for On-Site field detection.

Specification

Model	WL-HC-1A
Sample Throughput	Single
Operating Temperature	15-35°C
Temperature Accuracy	⩽±0.5°C
Power Supply Voltage	DC5V/2A
Interface	Type-C
Dimensions	60mm*60mm*140mm
Weight	100g

Step

Step 1

Add 50uL of sample lysis solution to the reaction vessel, then press the heating & mixing (green) button. Amplification will be completed in 15-20 minutes;

Step 2

Squeeze the tail of the dilution solution tube, then press the heating & mixing (green) button briefly. Mixing will be completed in 40 seconds;

Step 3

Press the test strip down, and observe the color development result.

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