

TUBERCULOSIS INFECTION T-CELL DETECTION SYSTEM

Simple operation, economical and convenient



Detection principle

After the human body is infected with Mycobacterium tuberculosis, sensitized T lymphocytes are produced and exist in the peripheral blood. When they are exposed to tuberculosis antigens (such as ESAT6, CFP10) again, they can be activated into effector T lymphocytes and release high - level cytokines. Among them, the most important one is interferon - γ (Interferon γ , IFN - γ). By detecting the concentration of interferon - γ , the tuberculosis infection situation can be judged. That is, the interferon - γ release assay, IGRAs.



Composition of tuberculosis infection T cell detection system



≥1ml fresh whole blood Dispense 1mL per tube Heparin sodium/ Whole blood incubated heparin lithium at 37°C anticoagulant tube

- N :Blank control tube T: Test extraction tube
- P: Positive control tube

Result report out in 17 minutes Packaging: 60 servings/box Calibration: two points

Detection after

centrifugation

determine whether the subject has been infected with Mycobacterium tuberculosis.

The indications of IGRA mainly include the diagnosis of latent tuberculosis infection and the auxiliary diagnosis of active tuberculosis.

Interpretation of IGRA test results:

(1)A positive result supports the determination of the Mycobacterium tuberculosis infection status.

(2)A negative result does not support the determination of the infection status.

(3)An indeterminate result is one of the application limitations of this test.

Product Information of Hotgen Biotech

(1) Detection equipment



Analyzer Type	Fully automated Bench-top CLIA analyzer (MQ60 smart)		
Sample type	Human serum, plasma, whole blood, urine, cerebrospinal fluid		
Host size	300mm x 565mm x 610mm (length×width×height)		
Host weight	36.0kg		
Languages	English		
Mode	Batch mode		
Channel	6 channels		
Throughput	24 tests/hour		
Storage	Result storage >1 million		
Standby	24 hours operation standby		
Data management	LIS/HIS connection		

Detection Principle	AMPPD-Magnetic Particle Chemiluminescence		
Throughput	150T/H		
Sample Positions	30		
Reagent Positions	12		
First Report Time	17 min		
Sample Types	pes Whole blood, Serum, plasma, urine		
Sample Loading Needle	Steel needle		
Sample Remove Needle	Steel needle		
Dimensions (L x W x H)	520 x 760 x 650 mm		



C800

(2)Detection reagent

Panel	Parameter	Qualification	Sample Type
IGRA	Protein extraction reagent	CE IVDR	WB
	Interferon-γ Chemiluminescence Immunoassay Kit (CLIA)	NMPA, CE	S/P

Simple operation Economical and convenient Be widely applied

