

QUICK REFERENCE INSTRUCTIONS (QRI)

REF

REF M10-MTNT-01







For use with STANDARD™ M10 system Please read the complete Instruction for use (IFU) prior to use.

Before you begin

- Store the STANDARD™ M10 MTB/NTM cartridges at 2 ~ 28°C (36~ 82°F).
- If the cartridge has been refrigerated, it is recommended to leave the cartridge for 4 hours at room temperature (20~28°C, 68~82°F).
- This test is only for human normal sputum or sputum sediment specimens.
- Always wear clean gloves and follow your institution's safety policy when handling patient samples.

Refer to IFU for Warnings and Precautions, Specimen Collection, Transport, Storage, and Quality Control.

TEST PROCEDURE

I. Starting the STANDARD™ M10 system

1. Turn on M10

Connect the M10 Console and Modules, then turn on each switch.



M10 Console (Left)

M10 Module (Back)

2. Log in

Enter user name and password, and touch the Log in button.



3. Select M10 Module

Touch the button of an available Module on the Home screen.



Home screen

4. Scan/Type Patient/Sample ID

Scan the Patient/Sample ID using the integrated barcode reader of the M10 Console. (or type in using a virtual keyboard)



Patient ID is optional and can be turned off in the 'SETTINGS'.

5. Scan test Cartridge

Scan the Cartridge barcode using the integrated barcode reader of the M10 Console.



After scanning the cartridge, it automatically proceeds to the next step.

6. Sample loading guide

Watch the animated guide for cartridge preparation and sample loading. Touch the screen to continue.



Sample Guide screen



TEST PROCEDURE (continued)

II. Loading a sample into the cartridge



Sputum specimens must be processed by one of the following methods prior to loading into cartridges.

- 1. Normal sputtum with PS method: Add the pretreatment solution (PS) to the normal sputtum. The ratio of sputtum to PS is 1:2, and sputtum volume should be larger than 0.5 mL. Vortex the sample vigorously twice for at least 10 seconds, and incubate for 15 minutes at room temperature. If the solution is still highly viscous, add more PS in a ratio of up to 1:3.
- Sputum sediment with PS method: Add 0.067M Phospate/HzO buffer to the sputum sediment container. Vortex sufficiently until completely suspended. Take more than 0.5 mL of
 suspended sputum, then add the pretreatment solution (PS). The ratio of the suspended sputum to PS is 1:2. Vortex the sample vigorously twice for at least 10 seconds, and incubate for 15
 minutes at room temperature. If the solution is still highly viscous, add more PS in a ratio of up to 1:3.

1. Remove Safety Clip

Remove the Safety Clip from the Cartridge.

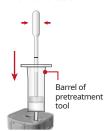
2. Pierce Cartridge

Press down on the lid to pierce the sealed cartridge.



3. Transfer Sample

Open the lid and transfer appropriate volume of the prepared sample using disposable dropper with volume indication.



4. Inject Sample

Insert and press down the plunger.



5. Close Cartridge lid

Close the cartridge lid.



III. Running a test

1. Load Cartridge into the Module

Place the cartridge into the assigned M10 Module and close the door manually.





The amplification chamber of the cartridge should face the inside of the M10 module.

2. Confirm the test

After confirm the sample and cartridge information, touch the 'OK' button.



Confirm the Test screen

3. Start Run

The remaining time is displayed on the M10 Console monitor.



Running screen

RESULT INTERPRETATION

Result	МТВС	NTM	IC	NOTE
MTBC Positive	+	-	+	
	+	+	+	NTM Ct > MTBC Ct
NTM Positive	-	+	+	
MTBC / NTM Positive (co-infection)	+	+	+	NTM Ct ≤ MTBC Ct
MTBC / NTM Negative	-	-	+	
Invalid	+/-	+/-	-	

- The NTM signal can be detected in MTBC target DNA.
- If co-infection of MTBC and NTM is suspected, additional tests such as sequencing are recommended.

Outcome (Home screen)	Result (Review screen)	Description	
MTBC Positive	+	MTBC Positive	
NTM Positive	+	NTM Positive	
Co-infection	+	MTBC and NTM Positive	
Negative	_	MTBC and NTM Negative	
Invalid	!	Invalid	
Error	Х	Error	

Result (Summary screen)	Description	
+	Target Positive	
_	Target Negative	
V	IC Valid	
· ·	IC Invalid	
X	Error	

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