

***Mycobacterium tuberculosis* TaqMan Probe/Primer and Control Set - 100 Reactions**

Product # TM42110

Component	Product # TM42110 (100 Reactions)
Mycobacterium tuberculosis Primer & Probe Mix	1 x 280 µL
Mycobacterium tuberculosis Positive Control	1 x 150 µL
Nuclease-Free Water	1 x 1.25 mL

Applications

TaqMan Probe/Primer and Control Set for *Mycobacterium tuberculosis* detection using real-time PCR based on the use of TaqMan® technology.

Storage Conditions and Product Stability

Store all the components at -20°C upon arrival. All kit components can be stored for 2 years after the date of production without showing any reduction in performance.

Precautions and Disclaimers

This product is designed for research purposes only. It is not intended for human or diagnostic use.

Customer-Supplied Reagents and Equipment

- Real-Time PCR Instrument with multiple filter channel (FAM channel minimum)
- 2x PCR Master Mix
- **Optional** – Norgen's TaqMan 2X PCR Master Mix can be used for PCR validation purposes (Please see related products table below)

Procedures

Recommended Reaction Conditions:

- Mycobacterium tuberculosis Primer Mix (2 µL per 20 µL PCR reaction)
- Mycobacterium tuberculosis Positive Control (2-8 µL per 20 µL PCR reaction)

Description

The positive control is a cloned partial *Mycobacterium tuberculosis* DNA.

Recommended TaqMan PCR Assay

PCR Cycle	Step	Temperature	Duration
Cycle 1	Step 1	95°C	3 min
Cycle 2 (40x)	Step 1	95°C	15 sec
	Step 2	60°C	30 sec

Interpretation of Assay Results

* FAM (Target detection)	** HEX/VIC (PCR validation-optional)	Result
+	+	Positive
-	+	Negative
-	-	PCR inhibited

* FAM channel for target detection with a regular 2x PCR Master Mix

** **Optional** - HEX or VIC channel is only required when Norgen's TaqMan 2X PCR Master Mix (Cat.#28340) is used for PCR validation purpose.

Related Products	Product #
Mycobacterium tuberculosis TaqMan TaqMan RT-PCR Kit	TM42150
Stool DNA Isolation Kit	27600
Urine DNA Isolation Kit (Slurry Format)	48800, 27100
TaqMan 2X PCR Master Mix	28340
2X PCR Master Mix	28007, 28008, 28009

Technical Support

Contact our Technical Support Team between the hours of 8:30 and 5:30 (Eastern Standard Time) at (905) 227-8848 or Toll Free at 1-866-667-4362. Technical support can also be obtained from our website or through email at techsupport@norgenbiotek.com.