

AmpliGlo-MTB™

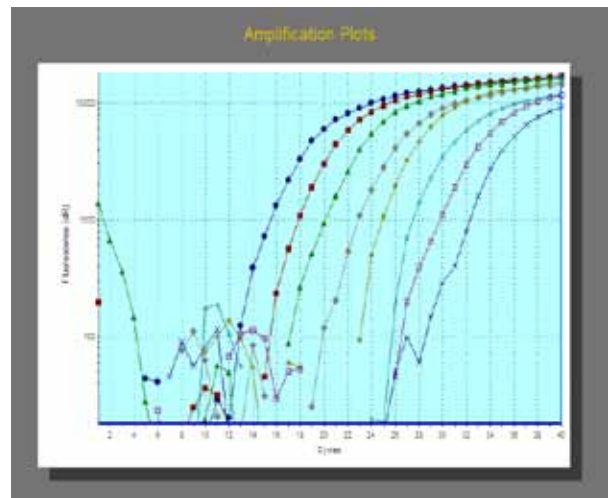
Traditionally detection of tuberculosis includes either bacterial culture in differential media and/or analysis by histological methods. Bacterial culture in differential media is extremely time consuming (may take up to 10 weeks). Although histological methods of detection are rapid and inexpensive they have low specificity and sensitivity. Early diagnosis of tuberculosis makes effective treatment possible and increases the probability of clinical outcome owing to effective antituberculosis therapy. Techniques that provide direct detection of MTB can augment test results from these other methods. Amplification detection of MTB nucleic acid by the Polymerase Chain Reaction (PCR) has been shown to be an effective and fast method for the detection of MTB DNA. Presence of MTB DNA can be easily confirmed within **ONE DAY**.

The AmpliGlo-MTB™ Test Kit, version 1.5, is an in vitro test for the **qualitative** determination of MTB in human sputum samples and the simultaneous detection of MTB-specific Internal Control (IC). The kit incorporates a Realtime PCR technique for the detection of low quantities of MTB DNA. The kit includes all the components for the isolation of MTB DNA from human sputum sample and reagents for performing RealTime PCR reactions.

AmpliGlo-MTB™ is a complete kit for the purification of bacterial DNA from human sputum using silica EZ-Spin column technology and subsequent Realtime PCR analysis by performing DNA amplification (PCR) of MTB bacterial DNA in a single tube. All the reagents and plastics necessary to perform quick yet highly efficient isolation (>90% yield) of bacterial DNA are provided. Each PCR reaction is provided as Ready-To-Use Master-Mix reaction. Each reaction mix contains all the necessary reagents including the specific primers and probes for performing a single-tube, single-step reaction. Simply add purified DNA template to the reaction tube, mix well and cycle. A 1000X Positive Control (100ul) is provided to monitor reaction efficiency. The kit has been optimized for consistent and reproducible Realtime amplification of MTB DNA. The kit format significantly reduces the number of pipetting steps, thereby increasing the reproducibility of the PCR technique and minimizing the risk of contamination. The kit is compatible with any Realtime machine that has a FAM (for MTB) and TET (for IC) channels.



Specifications:		
Sensitivity	100%	
Specificity	100%	
Sample Type	Human Sputum	
Detection Limit	40 copies/mL (1mL sample)	
Purification Efficiency	>90% recovery	
Analysis Time	30-50 mins, depends on the machine	
Catalog Numbers	RTP-61001 50 reactions	RTP-61002 100 reactions



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