

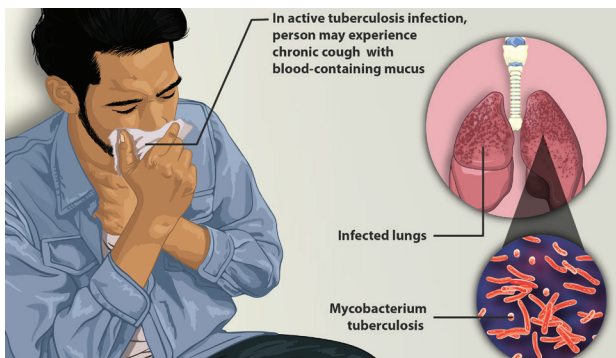
# DiAGSure<sup>®</sup> Mycobacterium tuberculosis Detection Kit



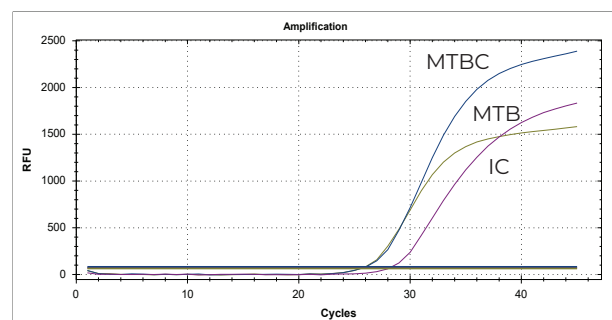
Tuberculosis (TB) is a potentially serious infectious disease that mainly affects the lungs. The bacteria that cause tuberculosis called Mycobacterium tuberculosis are spread from person to person through tiny droplets released into the air via coughs and sneezes. Signs and symptoms of active TB include: Coughing for three or more weeks, Coughing up blood or mucus, Chest pain, or pain with breathing or coughing, Unintentional weight loss, Fatigue, Fever, Night sweats, Chills, Loss of appetite. Endogenous IC ensures sample quality along with process control. Each reaction is of 25 uL volume which requires a DNA input of 8 uL per reaction. Positive controls (PC) have been so provided to run a PC per 10 samples. On the contrary, a customer can half-dilute the PC to run a single PC per 5 samples.

## Specification

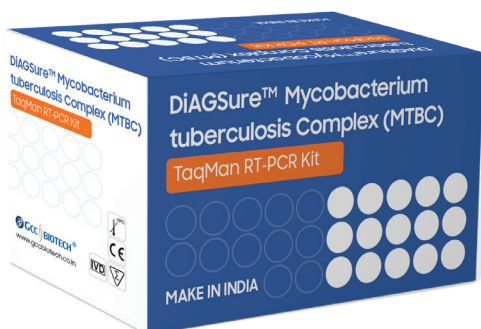
<b>Specimen type</b>	: "Sputum, BAL, pleural fluid, endometrial tissue and blood, culture, etc"
<b>Genotype Coverage</b>	: Detects all available strains of MTB
<b>Technology</b>	: 2-plex TaqMan PCR (one for target, other for internal control)
<b>Turn-around-time</b>	: 1 hr 10 mins
<b>Sensitivity</b>	: The sensitivity of the kit is less than 10 copies of MTB DNA.
<b>Specificity</b>	: >=99%



Mycobacterium tuberculosis infecting lungs



TaqMan amplification from MTB-positive BAL sample using DiAGSure<sup>®</sup> MTB detection kit



## Kit Content

Color Coding (Caps)	Reagents	Description
Amber	WRTaqMan Master Mix	Amplification Mix
Amber	Primer-Probe Mix	Amplification Reagent
Yellow	Positive Control (PC)	Positive Control
Blue	Negative Control (NC)	Negative Control
White	DNA Dilution Buffer	Tris-based buffer

## Product specifications comparison with leading kits available in market

(based on information furnished in the company websites)

Specification	GCC (DiAG-Sure®)	3BBlackBio	Altona	GeneSig	Molbio (TruNat)
(TruPCR)	MyLab	Qiagen	GeneProof	H1N1-swine flu	Influenza A (H1N1) virus
Country of Origin	India	India	India	Germany	Czechia
Sample type	Sputum, BAL, pleural fluid, endometrial tissue & blood	Pulmonary & Extra-pulmonary	Any	Sputum, BAL, bronchial secretion, CSF,	
or peritoneal puncture	Sputum, BAL, swab, urine, CSF, plasma, stool				
Kit type	Qualitative	Qualitative	Qualitative	Quantitative	Qualitative
Gene	Myc016S	--	IS6110	159 bp region	IS6110; MPB64
IC type	Endogenous	Endogenous	Endogenous	Exogenous	Exogenous
Fluorophores	FAM (MTBC); Cy5 (IC)	HEX (MTBC); TxRed (IC)	FAM (MTBC); HEX (IC)	FAM (MTBC); JOE (IC)	FAM (MTBC); VIC (IC)
Master mix	Liquid	Liquid	Lyophilized	Liquid	Lyophilized
Sensitivity	3 copies/rxn	10 CFU/mL	1 copy/rxn	0.23 copies/ µL	0.09 copies/ µl
Run time	1 hr 10 mins	--	1 hr 10 mins	1 hr 40 mins	1 hr 10 mins

## Products

Catalog No.	Details	Pack Size
<b>GDQ2009-20R   50R   100R</b>	DiAGSure® Mycobacterium tuberculosis Detection Kit	20   50   100 tests
<b>GDQ2003-20R   50R   100R</b>	DiAGSure® Mycobacterium tuberculosis Complex (MTBC) Detection Kit	20   50   100 tests

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## High quality Sputum DNA is only minutes away...

### GSure® Sputum DNA isolation kit

- Easy to use
- Non invasive
- Budget friendly
- Less Contamination
- All in one Formulation
- High Yield DNA from 50ul Saliva

