prepIT®•MAX

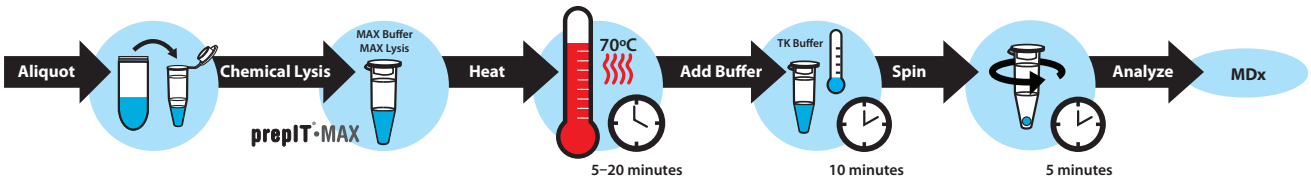
PT-MAX

SIMPLE • EFFICIENT • RELIABLE

Maximize *Mycobacterium tuberculosis* (MTb) DNA yield for molecular analysis

prepIT®•MAX is an extraction kit with a liquid lysis method that significantly increases recovery of *Mycobacterium tuberculosis* DNA without the need for bead beating or sonication.

Extract with prepIT•MAX for improved molecular results



Simple	Efficient	Reliable
• Reduce sample prep time for molecular testing • Eliminate bead beating and sonication • Increase safety	• Consistently higher MTb DNA yield • Greater extraction and workflow efficiency • Enable automation for MTb DNA extraction	• Improve detection of low and moderate positive samples • Increase DNA recovery to improve the sensitivity of molecular analysis

***Table 1**: prepIT•MAX compatibility and impact on limits of detection.*

Molecular analysis method	Compatible	Limits of detection (LOD) (as compared to bead beating)
PCR, LAMP	✓	Lower
Hain LPA	✓	Easier calls for low positives
Pyrosequencing	✓	Available from 1° sample; no need to wait for culture

Catalog #: PT-MAX-25

For more information contact info@dnagenotek.com

For Research Use Only
Not for use in diagnostic procedures
For performance evaluation only

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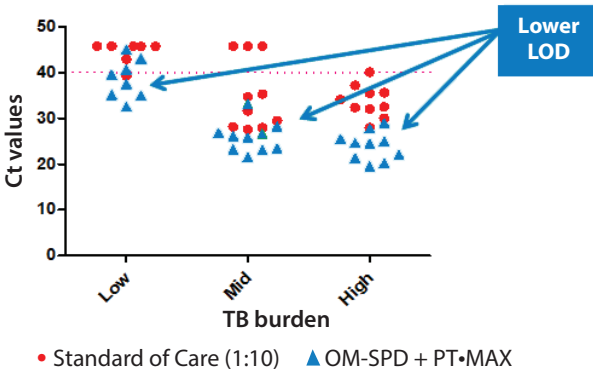
prepIT®•MAX

PT-MAX is compatible with molecular methods, increasing DNA yield and lowering limits of detection.

prepIT•MAX compatibility and impact on limits of detection

***Figure 1**: Lower LOD of a CLIA/CLEP approved PCR assay.*

prepIT•MAX extracted samples show lower Ct values and no inhibition, as compared to standard-of-care samples.



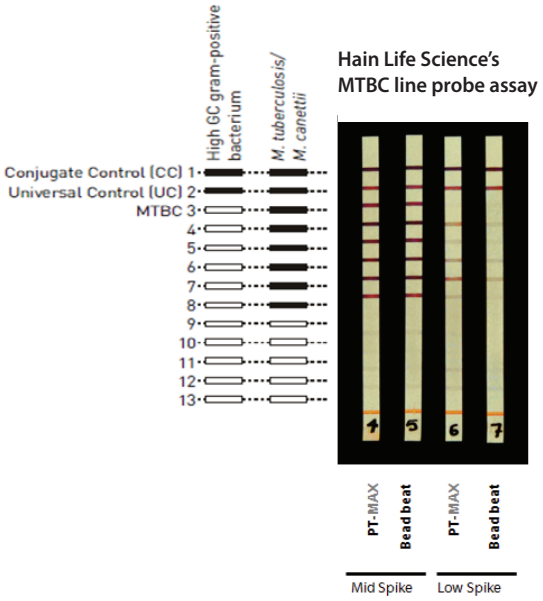
	MTb detected		
	Low	Mid	High
prepIT•MAX	88%	100%	100%
Bead beating (1:10 dilution)*	25%	70%	100%

Low n=8; Mid and High n=10
** 1:10 dilution results reported due to inhibition in neat samples*

Methods: DNA from duplicate low, mid and high positive FIND sputum samples was extracted using prepIT•MAX after treatment with OMNIgene®•SPUTUM or according to standard-of-care NaOH/NALC and bead beating processing. DNA was analyzed by a TaqMan® real-time PCR assay.

***Figure 2:** Lower LOD of Hain Life Science's MTBC line probe assay.*

prepIT•MAX samples show clearer bands by visual detection compared to bead beat samples using the Hain Life Science's MTBC line probe assay.



Methods: DNA from MTb spiked sputum samples was extracted using prepIT•MAX after treatment with OMNIgene•SPUTUM (PT-MAX samples) or according to standard-of-care NaOH/NALC and bead beating (bead beat samples).

***Table 2**: prepIT•MAX comparison of extraction method vs. bead beating.*

Product attributes	PT-MAX	Bead beating
Shelf-life	1 year	N/A
Liquid reagent	Y	N
Compatible with automation	Y	N
Limits aerosol generation	Y	N
Processing time	20–35 minutes	75 minutes
Increases DNA yield	>90% recovery	20–80% recovery
Reproducible extraction results	Y	N
Decreases molecular inhibition	Y	N
Increases molecular sensitivity	Y	N

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Superior samples • Proven performance

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