



XDR-TB

PCR/Mycobacteria

LiquidArray[®] MTB-XDR VER 1.0

Detect extensively drug-resistant tuberculosis

Innovation with Integrity

Report resistances to moxifloxacin, levofloxacin, linezolid, amikacin and ethambutol with one PCR

- Detect *M. tuberculosis* complex and resistances to five WHO-recommended second-line drugs in one PCR well
- Differentiate between high-level and low-level resistance to moxifloxacin for informed treatment decisions
- Comprehensive portfolio covers: TB, first- and second-line resistances, and nontuberculous mycobacteria
- Reuse the DNA extract with validated assays and run all LiquidArray[®] mycobacteria assays on the same PCR plate

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LiquidArray[®]

IVD

LiquidArray® MTB-XDR VER 1.0 for detecting second-line drug resistance in TB

Tuberculosis (TB) affects over 10 million people worldwide, leading to an estimated 1.4 million deaths per year. TB requires multidrug therapy, which can fail due to emerging drug resistance, with more extensively drug resistant strains progressively more difficult to treat. Rapid and reliable detection of resistance-mediating mutations is essential for fast intervention and effective disease management at individual and public health levels.

- Detect *M. tuberculosis* complex with high specificity and sensitivity
- Identify resistances to five WHO-recommended drugs
- Differentiate between high/low-level resistance to moxifloxacin
- Sequencing-like results in under 5.5 hours (up to 94 samples)

Sample	Extraction	Targets	28 mutations in genes mediating resistances to
Decontaminated sputum Culture	Manual (1-94 samples): FluoroLyse	<i>IS6110</i>	√ Moxifloxacin (high level)
	Automated (12-94 samples): GenoXtract® fleXT GXT96 X2 extraction kit	<i>gyrA</i> <i>gyrB</i> <i>rplC</i> <i>rrl</i> <i>rrs</i> <i>embB</i>	√ Moxifloxacin (low level) √ Levofloxacin √ Linezolid √ Amikacin √ Ethambutol

Same DNA extract can be re-used in all validated LiquidArray® mycobacteria assays

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LiquidArray® MTB-XDR VER 1.0 is a highly sensitive multiplex assay for detection of up to 28 mutations across six genes mediating resistances to five anti-TB drugs in one PCR well. Manual or automated DNA extraction and PCR setup using decontaminated sputum or culture specimens is followed by amplification and detection in the FluoroCycler® XT. Users benefit from receiving results at a glance with individual mutations and resistance interpretation displayed in a clear, colour-coded report.

The LiquidArray® MTB-XDR VER 1.0 assay complements FluoroType® MTBDR VER 2.0, which can use the same DNA extract and reports resistances to first-line drugs, rifampicin and isoniazid. Together with FluoroType® Mycobacteria VER 1.0 assay, which detects up to 32 clinically relevant NTM species, the three assays form a core comprehensive molecular diagnostic workflow, essential for every mycobacteria laboratory.

Order information



LiquidArray® MTB-XDR VER 1.0
Part No. 1880018
64 tests / 56 tests (GenoXtract® fleXT)

Please contact your local representative for availability in your country.
Not for sale in the USA.

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