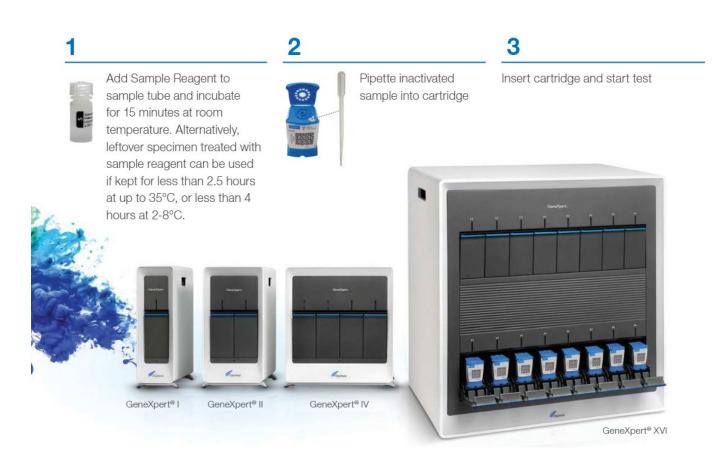
Xpert® 10 color Plus Melt Curve Technologies for Antimicrobial Resistance Gene Detection

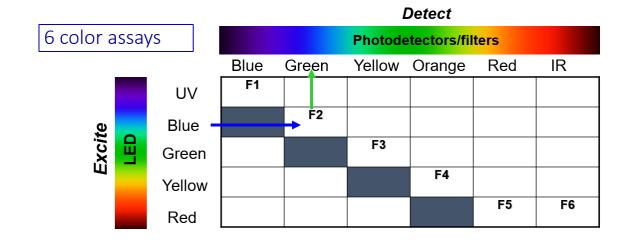


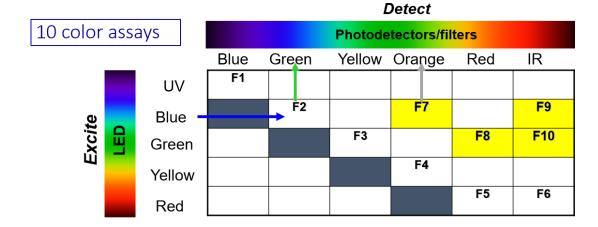
- Mycobacterium tuberculosis assays*
 - Incorporate melt curve technology to differentiate among rpoB mutations leading to rifampin resistance to provide better specificity
 - Expand the number of color channels together with melt curve analysis available to enable detection of resistance mutations for isoniazid and second line agents
- Carbapenem resistance gene detection[†]
 - Use 10 colors to expand the number of targets available in the Xpert® CarbaR assay



GeneXpert® Optics: Excitation/Detection Matrix

- Each individual reporter to be measured optically in the GeneXpert system can be represented by a characteristic signal vector, which indicates excitation and detection channel pairings
- Expanded matrix of excitation and detection channel pairings for 10-color systems







The public health crisis of Drug Resistant TB and the Xpert® tool

- 10 million people fell ill with TB and 1.4 million died of TB in 2019
- Half a million people were sick with drug resistant TB in 2019
 - Only 38% accessed treatment and of those, only 57% were successfully treated



- Reflex test for samples positive for MTB
- Simultaneous detection of:
 - MTB Complex, mutations associated with INH, ETH, FQ, SLID resistance
- Results in less than 90 minutes¹
- Closed cartridge system minimizes risk of contamination

Drug	Gene Target
Isoniazid	inhA promoter
	katG fabG1 oxyR- ahpC intergenic region
Ethionamide	inhA promoter
Fluoroquinolones	gyrA gyrB
Amikacin, Kanamycin, Capreomycin	<i>rr</i> s <i>eis</i> promoter



[•] CE-IVD. In Vitro Diagnostic Medical Device. May not be available in all countries. Not available in the United States Ref: World Health Organization. Global Tuberculosis Report. 2020.

Xpert® Carba-R Next Gen: 10 Colors, No Melt Curve Analysis Required

