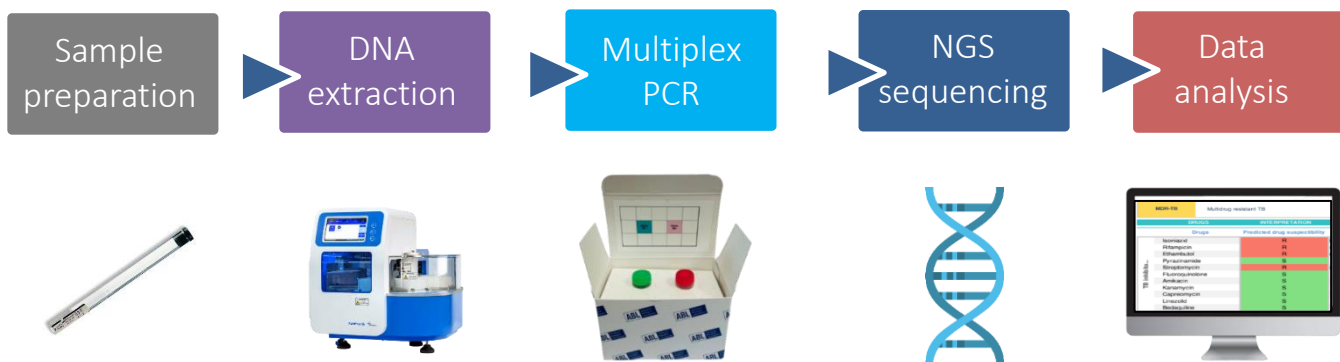






ABL received CE-IVD Mark for its single multiplex PCR test “DeepChek® Assay 13-Plex KB Drug Susceptibility Testing”

A validated End-to-End Solution for the determination of tuberculosis (TB) bacteria resistance with the detection of resistance associated mutations in MTB targeted genes by Sequencing

We are pleased to announce that our DeepChek® Assay 13-Plex KB Drug Susceptibility Testing, intended to be used for Tuberculosis Drug Resistance assessment through NGS sequencing, **is now CE-IVD marked!**



List of targeted anti-TB drugs & MTB regions

	1 st Line	2 nd Line	New antibiotics
	<ul style="list-style-type: none"> ▪ rifampicin (RMP) ▪ isoniazid (INH) ▪ pyrazinamide (PZA) ▪ ethambutol (EMB) 	<ul style="list-style-type: none"> ▪ Fluoroquinolones (moxifloxacin (MOX), levofloxacin (LFX)) ▪ amikacin (AMK) ▪ kanamycin (KAN) ▪ capreomycin (CAP) ▪ streptomycin (STR) ▪ ethionamide (ETH) 	<ul style="list-style-type: none"> ▪ bedaquiline (BDQ) ▪ clofazimine (CFZ)
	<ul style="list-style-type: none"> ▪ mabA-inhA promoter ▪ inhA structural region 	<ul style="list-style-type: none"> ▪ rrs central region ▪ rrs 3'terminal region 	
	<ul style="list-style-type: none"> ▪ furA-katG intergenic region ▪ katG structural region 	<ul style="list-style-type: none"> ▪ rpoB 	
	<ul style="list-style-type: none"> ▪ rpsL 	<ul style="list-style-type: none"> ▪ rv0678 	
	<ul style="list-style-type: none"> ▪ embB 	<ul style="list-style-type: none"> ▪ tlyA 	
	<ul style="list-style-type: none"> ▪ eis promoter 	<ul style="list-style-type: none"> ▪ pncA 	
	<ul style="list-style-type: none"> ▪ gyrA 		
	<ul style="list-style-type: none"> ▪ gyrB 	<ul style="list-style-type: none"> ▪ Hsp65 (complementary RUO assay) 	

Highlights

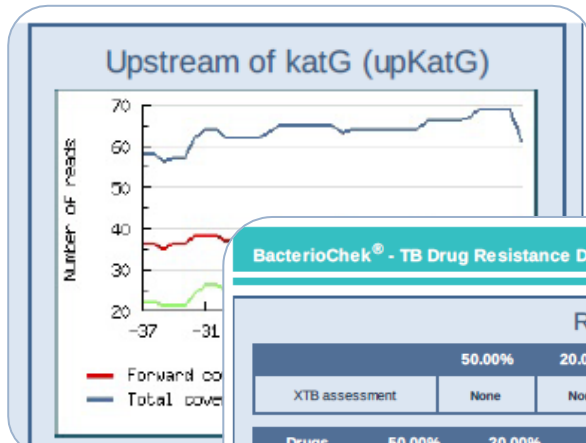
Input sample type	<ul style="list-style-type: none"> ▪ unprocessed sputum specimens ▪ concentrated sediments prepared from sputums or from MTB-positive culture
Library Preparation	<ul style="list-style-type: none"> ▪ DeepChek® Library Prep Assay (24 / 48 /96 /384 indexes), ...
Sequencing technologies	<ul style="list-style-type: none"> ▪ Illumina® iSeq 100, MiniSeq*, MiSeq*, NextSeq*, ThermoFisher® S5*, PGM*, Oxford Nanopore® MinIon*, Gridion*... ▪ Capacity to pool TB libraries with other DeepChek® libraries (Ex.: HIV, SARS-CoV-2, HCV, HBV, 16s RNA...)
Turnaround time	<ul style="list-style-type: none"> ▪ From sample to analysis and interpretation report, the total time for 24 samples is about 29 hours
Kit content	<ul style="list-style-type: none"> ▪ Multiplex PCR master mix, Multiplex Primer Mix
Drug Resistance Assessment	<ul style="list-style-type: none"> ▪ Guidelines: PhyResSE, ReSeqTB, TB-Profiler, WHO Catalogue ▪ MDR-TB & XDR-TB
LOD	<ul style="list-style-type: none"> ▪ 2.30 * 10³ TCID₅₀/mL for MTB
Data analysis	<ul style="list-style-type: none"> ▪ BacterioChek®-TB software : Push-button system available through Cloud (HDS) or local installation

** instruments & related reagents shall be validated by the laboratory*

Example of report



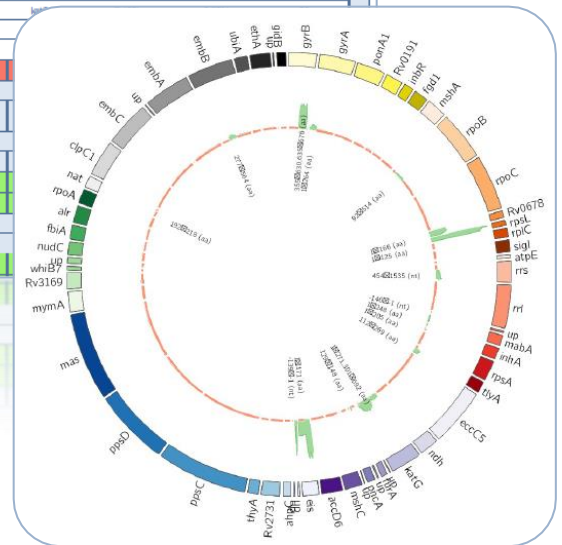
BacterioChek™



BacterioChek® - TB Drug Resistance Determination

ReSeqTB v2019-01

XTB assessment	50.00%	20.00%	10.00%	3.00%	2.00%	1.00%	0.50%
XTB assessment	None	None	None	MDR-TB	MDR-TB	MDR-TB	MDR-TB
Drugs	50.00%	20.00%	10.00%	3.00%	2.00%	1.00%	0.50%
Isoniazid	R	R	R	R	R	R	R
Rifampicin	S	S	S	R	R	R	R
Rifabutin	S	S	S	S	S	S	S
Ethambutol	S	S	S	S	S	S	S
Pyrazinamide	S	S	S	S	S	S	S



References

DeepChek® Assay 13-Plex KB DRUG SUSCEPTIBILITY TESTING V1 (CE-IVD)	128A24
DeepChek® TB Sample Preparation (150 mL) (CE-IVD)	127B-240862
BacterioChek® - TB Software (CE-IVD)	S-12-023 (TL)
DeepChek® NGS Clean-up beads (60mL) (RUO)	N411-02
DeepChek® NGS LIBRARY PREPARATION V1 (24 indexes) (RUO)	116B24 + 124B24
DeepChek® NGS LIBRARY PREPARATION V1 (48 indexes) (RUO)	116B48 + 124B48
DeepChek® NGS LIBRARY PREPARATION V1 (96 indexes) (RUO)	116B96 + 124B96
DeepChek® NGS LIBRARY PREPARATION V1 (384 indexes) (RUO)	116B384 + 124B384