

**Supplementary Table III.** Diagnostic characteristics of PathoDetect™ and Truenat® for detection of drug resistance (RIF and INH) among confirmed TB cases against phenotypic drug-susceptibility test p(DST) and line probe assay (LPA) as the reference standard

PathoDetect™ RIF (Index test)	RIF by pDST			Truenat® RIF (Comparator)	RIF by pDST		
	Resistant	Sensitive	Total		Resistant	Sensitive	Total
Resistant	135	29	164	Resistant	128	34	162
Sensitive	21	317	338	Sensitive	16	303	319
Total	156	346	*502	Total	144	337	#481
% Sensitivity (95% CI)	86.5 (80.2-91.5)			% Sensitivity (95% CI)	88.9 (82.6-93.5)		
% Specificity (95% CI)	91.6 (88.2-94.3)			% Specificity (95% CI)	89.9 (86.2-92.9)		
% PPV (95% CI)	82.3 (75.6-87.8)			% PPV (95% CI)	79.0 (71.9-85)		
% NPV (95% CI)	93.8 (90.7-96.1)			% NPV (95% CI)	95.0 (92-97.1)		
*Results of 12 samples out of available 514 RIF culture DST results (4 indeterminate for RIF & 8 negative for MTB by PathoDetect™) not included in the analysis.				#Results of 33 samples out of available 514 RIF culture DST results (12 indeterminate for RIF & 21 negative for MTB by Truenat®) not included in the analysis.			
PathoDetect™ RIF (Index test)	RIF by LPA			Truenat® RIF (Comparator)	RIF by LPA		
	Resistant	Sensitive	Total		Resistant	Sensitive	Total
Resistant	171	7	178	Resistant	151	23	174
Sensitive	12	388	400	Sensitive	19	355	374
Total	183	395	@578	Total	170	378	\$548
% Sensitivity (95% CI)	93.4 (88.8-96.6)			% Sensitivity (95% CI)	88.8 (83.1-93.1)		
% Specificity (95% CI)	98.2 (96.4- 99.3)			% Specificity (95% CI)	93.9 (91-96.1)		
% PPV (95% CI)	96.1 (92.1-98.4)			% PPV (95% CI)	86.8 (80.8-91.4)		
% NPV (95% CI)	97 (94.8-98.4)			% NPV (95% CI)	94.9 (92.2-96.9)		
@Results of 9 samples out of available 587 LPA RIF results (1 indeterminate for RIF & 8 negative for MTB by PathoDetect™) not included in the analysis.				\$Results of 39 samples out of available 587 LPA RIF results (21 indeterminate for RIF & 18 negative for MTB by Truenat®) not included in the analysis.			
PathoDetect™ RIF (Index test)	INH by pDST			PathoDetect™ INH (Index test)	INH by LPA		
	Resistant	Sensitive	Total		Resistant	Sensitive	Total
Resistant	208	35	243	Resistant	251	13	264
Sensitive	26	235	261	Sensitive	18	298	316
Total	234	270	**504	Total	269	311	##580
% Sensitivity (95% CI)	88.9 (84.1-92.6)			% Sensitivity (95% CI)	93.3 (89.6-96)		
% Specificity (95% CI)	87 (82.4- 90.8)			% Specificity (95% CI)	95.8 (93-97.8)		
% PPV (95% CI)	85.6 (80.5-89.8)			% PPV (95% CI)	95.1 (91.4-97.4)		
% NPV (95% CI)	90 (85.7-93.4)			% NPV (95% CI)	94.3 (91.1-96.6)		
**Results of 10 samples out of available 514 INH culture pDST results (2 indeterminate for INH & 8 negative for MTB by PathoDetect™) not included in the analysis.				##Results of 8 samples out of available 588 LPA INH results (8 negative for MTB by PathoDetect™) not included in the analysis.			
RIF, rifampicin; INH, isoniazid; pDST, phenotypic drug-susceptibility test; LPA, line probe assay; NPV, PPV, positive predictive value; negative predictive value; TB, tuberculosis							