

**Supplementary Table IV.** Diagnostic characteristics of PathoDetect™ and Truenat® for detection of drug resistance (RIF and INH) in presumptive pulmonary TB group against phenotypic drug-susceptibility test (pDST) 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	11	20	31	Resistant	15	18	33
Sensitive	13	223	236	Sensitive	8	220	228
Total	24	243	*267	Total	23	238	*261
% Sensitivity	45.8 (25.6-67.2)			% Sensitivity	65.2 (42.7-83.6)		
% Specificity	91.8 (87.6-94.9)			% Specificity	92.4 (88.3-95.5)		
% PPV	35.5 (19.2-54.6)			% PPV	45.5 (28.1-63.6)		
% NPV	94.5 (90.8-97)			% NPV	96.5 (93.2-98.5)		
*Results of 11 samples out of available 278 RIF culture DST results (4 indeterminate for RIF & 7 negative for MTB by PathoDetect) not included in the analysis.				*Results of 17 samples out of available 278 RIF culture DST results (4 indeterminate for RIF & 13 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	12	5	17	Resistant	12	9	21
Sensitive	9	284	293	Sensitive	7	268	275
Total	21	289	*310	Total	19	277	*296
% Sensitivity	57.1 (34-78.2)			% Sensitivity	63.2 (38.4-83.7)		
% Specificity	98.3 (96-99.4)			% Specificity	96.8 (93.9-98.5)		
% PPV	70.6 (44-89.7)			% PPV	57.1 (34-78.2)		
% NPV	96.9 (94.2-98.6)			% NPV	97.5 (94.8-99)		
*Out of available 317 LPA results, 6 were negative for MTB & 1 RIF indeterminate by PathoDetect not included in the analysis.				*Out of available 317 LPA results, 9 were negative for MTB & 12 RIF indeterminate 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	17	27	44	Resistant	27	9	36
Sensitive	14	211	225	Sensitive	11	263	274
Total	31	238	*269	Total	38	272	*310
% Sensitivity	54.8 (36-72.7)			% Sensitivity	71.1 (51.4-84.6)		
% Specificity	88.7 (83.9-92.4)			% Specificity	96.7 (93.8-98.5)		
% PPV	38.6 (24.4-54.5)			% PPV	75.0 (60.5-85.5)		
% NPV	93.8 (89.8-96.6)			% NPV	93.6 (90.2-96.6)		
*Results of 9 samples out of available 278 INH culture DST results (2 indeterminate for INH & 7 negative for MTB by PathoDetect) not included in the analysis.				*Out of 316 LPA results, 6 MTB negative samples by PathoDetect were not included in the analysis.			

RIF, rifampicin; INH, isoniazid; pDST, phenotypic drug-susceptibility test; LPA, line probe assay; PPV, positive predictive value; NPV, negative predictive value; TB, tuberculosis