

Supplemental material

Supplemental Table 1. Agreement on detection of *Mycobacterium tuberculosis* complex DNA from primary samples between cobas MTB and Xpert MTB/RIF. Xpert MTB/RIF results were available for a subset 128 samples investigated in this study. CI, confidence interval; MTBC, *Mycobacterium tuberculosis* complex.

cobas MTB	Xpert MTB/RIF		
	Positive	Negative	Total
MTBC positive	70	0	70
MTBC negative	1 ¹	57	58
Total	71	57	128
Positive Percent Agreement (95% CI)	98.6 (92.4, 99.9)		
Negative Percent Agreement (95% CI)	100.0 (93.7, 100.0)		
Overall Percent Agreement (95% CI)			99.2 (95.7, 99.9)

¹ The single discordant sample was smear-negative and MTBC culture-positive.

Supplemental Table 2. Frequency of rifampicin and isoniazid resistance by smear microscopy and country of sample origin. CRS, composite reference standard (phenotypic drug susceptibility testing and line probe assay); DE, Germany; INH, isoniazid; n, number of samples; RIF, rifampicin; SL, Sierra Leone.

Drug	Smear	CRS	cobas	n, DE	n, SL	n, Total	
RIF	Positive	Resistant	Positive	1	35	36	
			Negative	1	3	4	
			Invalid	0	0	0	
		Sensitive	Positive	0	1	1	
			Negative	28	1	29	
			Invalid	1	0	1	
		Total			31	40	71
		Negative	Resistant	Positive	0	2	2
				Negative	1	0	1
	Invalid			1	0	1	
	Sensitive		Positive	0	0	0	
			Negative	10	1	11	
			Invalid	2	0	2	
	Total			14	3	17	
	Total			45	43	88	
	INH	Positive	Resistant	Positive	3	29	32
				Negative	0	10	10
Invalid				0	0	0	
Sensitive			Positive	0	0	0	
			Negative	27	1	28	
			Invalid	1	0	1	
Total			31	40	71		
Negative			Resistant	Positive	2	2	4
				Negative	1	0	1
		Invalid		0	0	0	
		Sensitive	Positive	0	0	0	
			Negative	9	1	10	
			Invalid	2	0	2	
Total			14	3	17		
Total			45	43	88		