

Figure S1

'TB Concentration & Transport' kit



'TB DNA Extraction' kit



Figure S1. Evaluated kits: 'TB Concentration & Transport' and 'TB DNA Extraction' Kits.

Figure S2

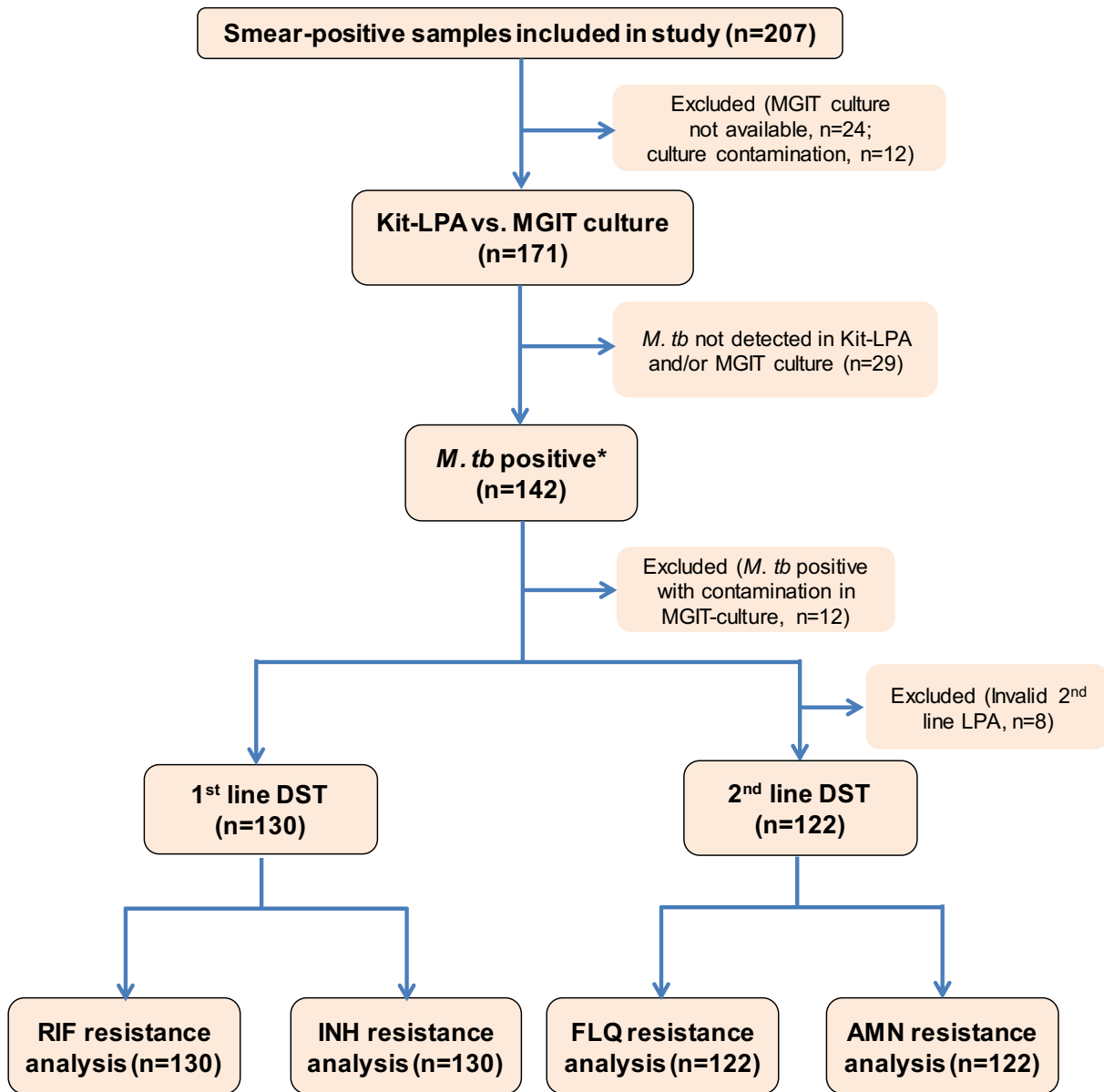


Figure S2. Workflow of sample analysis (Kit-LPA vs. MGIT) for drug resistance detection. **M. tb*: *Mycobacterium tuberculosis*, confirmed by AFB-positive smear and SD BIOLINE TB Ag MPT64 kit Rapid test (in MGIT-culture).

Figure S3

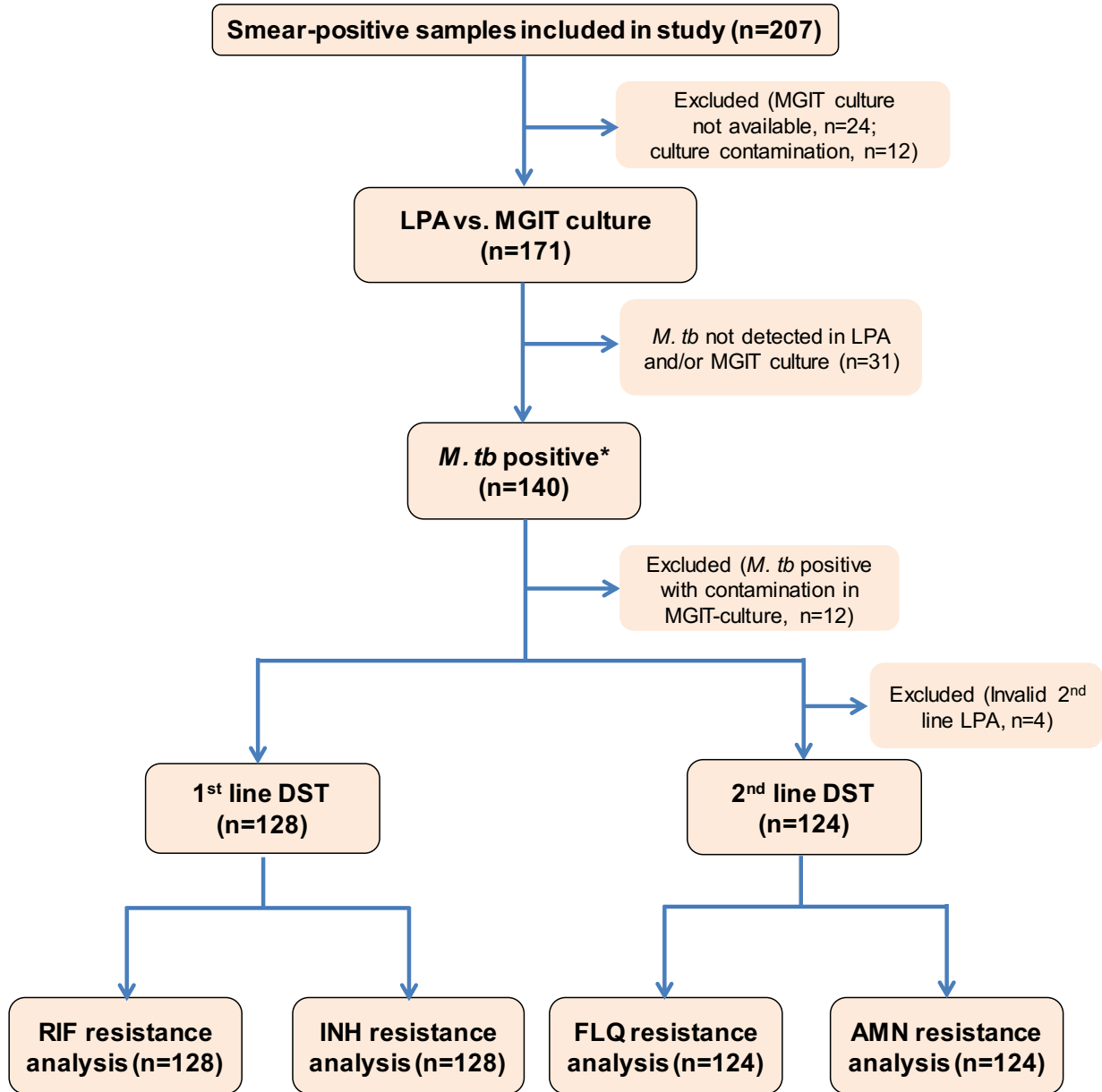


Figure S3. Workflow of sample analysis (LPA vs. MGIT) for drug resistance detection. **M. tb*: *Mycobacterium tuberculosis*, confirmed by AFB-positive smear and SD BIOLINE TB Ag MPT64 kit Rapid test (in MGIT-culture).

Figure S4

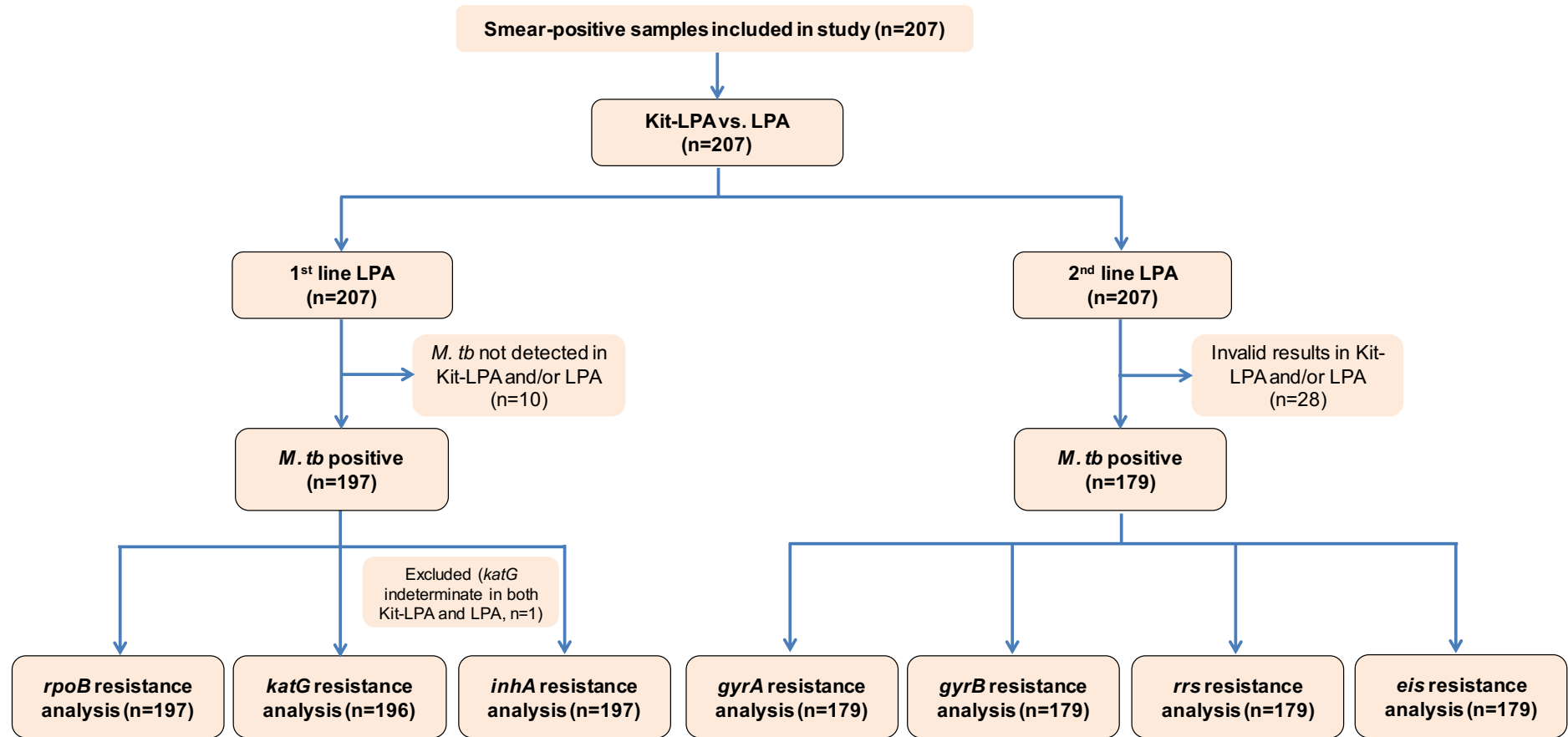


Figure S4. Workflow of sample analysis (Kit-LPA vs. LPA) for drug resistance detection. **M. tb*: *Mycobacterium tuberculosis*, confirmed by AFB-positive smear and SD BIOLINE TB Ag MPT64 kit Rapid test (in MGIT-culture).

Figure S5

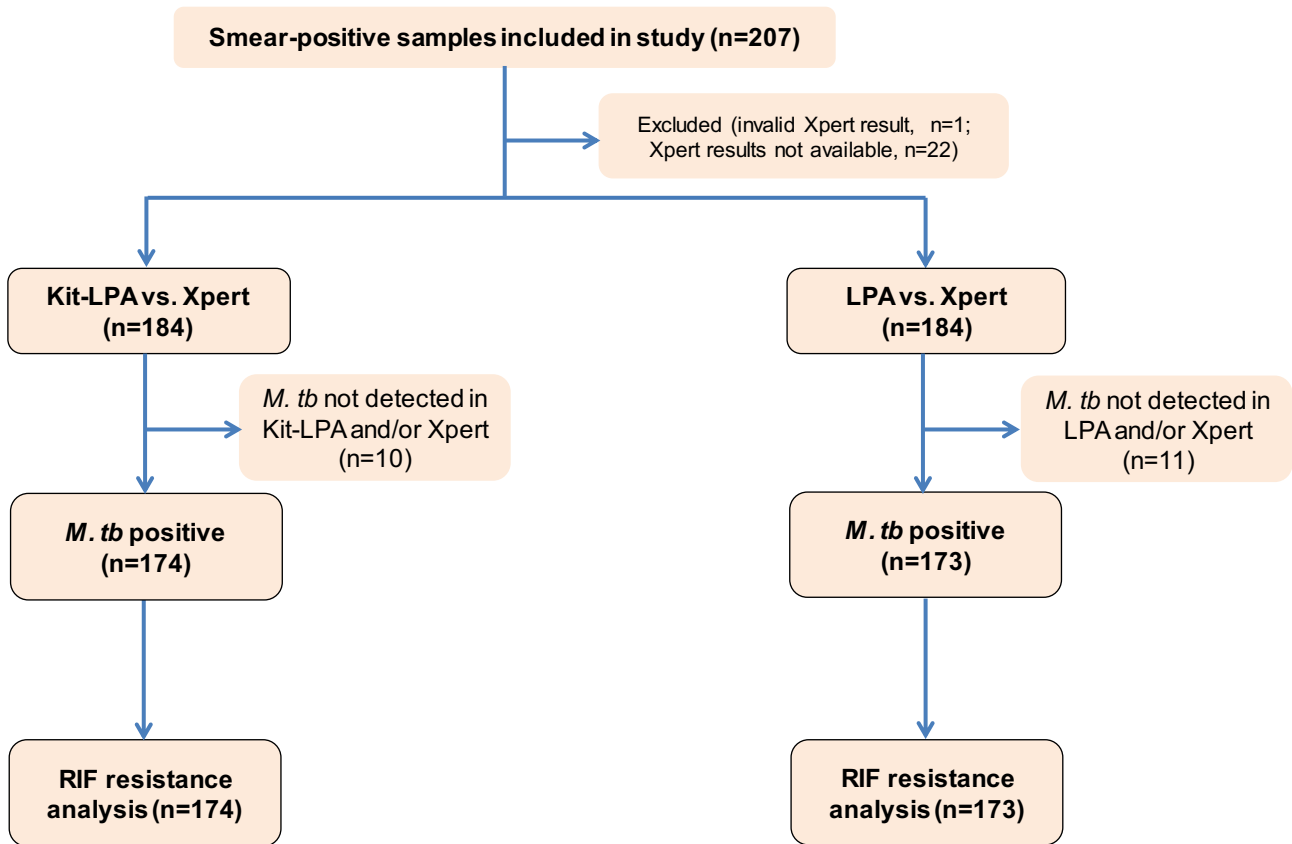


Figure S5. Workflow of sample analysis (Kit-LPA/LPA vs. Xpert MTB/RIF) for drug resistance detection. **M. tb*: *Mycobacterium tuberculosis*, confirmed by AFB-positive smear and SD BIOLINE TB Ag MPT64 kit Rapid test (in MGIT culture).

Table S1. Clinical characteristics of enrolled participants in the present study.

Symptom/ Criterion	Presumptive MDR-TB/XDR-TB Patients n=207 (%)
Fever	127 (61.3)
Cough	197 (95.1)
Haemoptysis	31 (4.5)
Night sweats	72 (34.7)
Weakness	187 (90.3)
Loss of appetite	172 (83.1)
Weight loss	165 (79.7)
Abdominal distension	51 (24.6)
Vomiting	69 (33.3)
Lymph node enlargement	9 (4.3)

Table S2. Discordance between results of MGIT-DST, LPA and Kit-LPA.

Drug(Number of samples analysed)*	Sample Id	Results			Discordance		
		MGIT-DST [@]	Kit-LPA [#]	LPA [#]	MGIT-DST vs. Kit-LPA	MGIT-DST vs. LPA	LPA vs. Kit-LPA [§]
RIF (n=128)	C8743, C2444	R	WT	WT	2	2	0
	C8549, C8495, C7384	S	MUT	MUT	3	3	0
INH (n=128)	C4236, C7384, C6648	R	WT	WT	3	3	0
	C9353	R	WT	MUT	1	0	1
	C3264, C8495, C8743, C4754, C3489, C5579	S	MUT	MUT	6	6	0
FLQ (n=118)	C9652	R	WT	WT	1	1	0
	C3728	S	MUT	WT	1	0	1
	C3742, C8549, C2692, C3489	S	MUT	MUT	4	4	0
AMN (n=118)	C6382	R	WT	WT	1	1	0
	C3728	S	MUT	WT	1	0	1

*This table summarized data of only those samples that had complete results for these 3 tests.

[@]R, Resistant in MGIT-DST; S, Sensitive in MGIT-DST.

[#]WT, Wild-type in LPA/Kit-LPA; MUT, Mutant in LPA/Kit-LPA.

[§]Discordant results between Kit-LPA vs. LPA are highlighted in bold font.