

TABLE S1 Sample preparation procedure and experimental conditions

Agent (Abbreviation)	Supplier	Inhibitor	Concn. of inhibitor ($\mu\text{g/ml}$)	Stock solution		Range of concn. ($\mu\text{g/ml}$)
				mg/ml	Solvent	
Meropenem (MEM)	Meiji Seika Pharma Co., Ltd. (Tokyo, Japan)	-	0	2.56	7H9	64 – 0.0625
		Potassium clavulanate	2 or 4	16.0	7H9	
		Avibactam	2 or 4	16.0	7H9	
Biapenem (BPM)	Meiji Seika Pharma Co., Ltd. (Tokyo, Japan)	-	0	2.56	7H9	64 – 0.0625
		Potassium clavulanate	2 or 4			
		Avibactam	2 or 4			
Tebipenem (TBM)	Meiji Seika Pharma Co., Ltd. (Tokyo, Japan)	-	0	2.56	7H9	64 – 0.0625
		Potassium clavulanate	2 or 4			
		Avibactam	2 or 4			
Ampicillin (AMP)	Meiji Seika Pharma Co., Ltd. (Tokyo, Japan)	-	0	25.6	DMSO	128 – 0.125
		Potassium clavulanate	2 or 4			
		Avibactam	2 or 4			
Amoxicillin (AMX)	Meiji Seika Pharma Co., Ltd. (Tokyo, Japan)	-	0	25.6	DMSO	128 – 0.125
		Potassium clavulanate	2 or 4			
		Avibactam	2 or 4			
Clavulanate (CLA)	Meiji Seika Pharma Co., Ltd. (Tokyo, Japan)			10.24	7H9	512 – 0.5
Avibactam (AVI)	Meiji Seika Pharma Co., Ltd. (Tokyo, Japan)			10.24	7H9	512 – 0.5
Amikacin (AMK)	Sigma-Aldrich (MO, USA)			10.24	7H9	512 – 0.5
Isoniazid (INH)	Sigma-Aldrich (MO, USA)			0.64	7H9	32 – 0.031
Rifampicin (RIF)	Sigma-Aldrich (MO, USA)			25.6	DMSO	128 – 0.125
Streptomycin (STR)	Sigma-Aldrich (MO, USA)			5.12	7H9	256 – 0.25
Ethambutol (EMB)	Sigma-Aldrich (MO, USA)			5.12	7H9	256 – 0.25
Moxifloxacin (MXF)	Kemprotec Limited (Middlesbrough, UK)			1.28	7H9	64 – 0.0625
Levofloxacin (LVX)	Daiichi Sankyo Corporation (Tokyo, Japan)			1.28	7H9	64 – 0.0625
Ethionamide (ETH)	Sigma-Aldrich (MO, USA)			12.8	DMSO	64 – 0.0625
<i>p</i> -Aminosalicylic acid (PAS)	Sigma-Aldrich (MO, USA)			6.40	DMSO	32 – 0.031
Cycloserine (CS)	Sigma-Aldrich (MO, USA)			1.28	7H9	64 – 0.0625
Clarithromycin (CLR)	Wako Pure Chemical Industries (Osaka, Japan)			12.8	DMSO	64 – 0.0625

TABLE S2 Drug-resistance profiles of clinical isolates

Strain No.		Resistance to	<i>pncA</i> mutation			
			Nucleotide change	Amino acid change		
1	XDR-TB	INH RIF	LVX MXF AMK	A152C	His51Pro	
2	Pre-XDR-TB	INH RIF STR	LVX MXF			
3	Pre-XDR-TB	INH RIF	EMB LVX MXF			
4	Pre-XDR-TB	INH RIF	EMB LVX MXF	C24G	Asp8Glu	
5	Pre-XDR-TB	INH RIF	EMB LVX MXF			
6	Pre-XDR-TB	INH RIF STR	EMB LVX MXF	G415A	Val139Met	
7	XDR-TB	INH RIF STR	EMB LVX	AMK	Not amplified	
8	XDR-TB	INH RIF STR	EMB LVX MXF	AMK	Insertion sequence (24 bp) at 243	Frameshift
9	MDR-TB	INH RIF STR				
10	MDR-TB	INH RIF STR		A139G	Thr47Ala	
11	Pre-XDR-TB	INH RIF	LVX MXF			
12	Pre-XDR-TB	INH RIF	LVX MXF			
13	Pre-XDR-TB	INH RIF STR	EMB LVX	C234A	Gly78Gly	
14	MDR-TB	INH RIF	EMB	T20C	Val7Ala	
15	MDR-TB	INH RIF STR		T254G	Leu85Arg	
16	Pre-XDR-TB	INH RIF	EMB LVX MXF	G7A	Ala3Thr	
17	Pre-XDR-TB	INH RIF STR	EMB LVX MXF			
18	Pre-XDR-TB	INH RIF STR	EMB LVX MXF	T307C	Tyr103His	
19	MDR-TB	INH RIF	EMB	C234A	Gly78Gly	
20	Pre-XDR-TB	INH RIF	EMB LVX			
21	Pre-XDR-TB	INH RIF	LVX MXF	T26G	Val9Gly	

MDR-TB, multi-drug resistant TB; Pre-XDR-TB, pre-extensively drug-resistant TB; XDR-TB, extensively drug-resistant TB; INH, isoniazid; RIF, rifampicin; STR, streptomycin; EMB, ethambutol; LVX, levofloxacin; MXF, moxifloxacin; AMK, amikacin.