

Supplementary Table 1. Molecular and epidemiological characteristics of ESBL-producing *Klebsiella pneumoniae* isolates.

Isolate no.	ST	Capsule type ^a	ESBL type	Replicon types ^b	Virulence genes					String test	Sample	Geographic area
					<i>rmpA</i>	<i>rmpA2</i>	<i>iucA</i>	<i>iroB</i>	<i>peg-344</i>			
NR3028	4489	ND	CTX-M-2	N	–	–	–	–	–	–	urine	Kinki
NR3029	35	ND	CTX-M-2	N	–	–	–	–	–	–	urine	Kinki
NR3030	25	K2	CTX-M-15	NT	–	–	–	–	–	–	urine	Kinki
NR3031	15	ND	CTX-M-15	–	–	–	–	–	–	+	urine	Kanto
NR3032	25	K2	CTX-M-2	N	–	–	–	–	–	+	urine	Kinki
NR3034	3368	ND	CTX-M-15	FIIIk	–	–	–	–	–	+	urine	Kanto
NR3036	29	K54	CTX-M-14	FIIIk	–	–	–	+	–	–	urine	Kanto
NR3037	107	ND	CTX-M-14	FIIIk	–	–	–	–	–	–	sputum	Kanto
NR3038	336	ND	CTX-M-15	–	–	–	–	–	–	–	sputum	Tohoku
NR3039	610	ND	CTX-M-15	–	–	–	+	–	–	–	sputum	Tohoku
NR3040	412	K57	CTX-M-15	FIIIk	+	+	+	+	+	+	sputum	Kanto
NR3042	86	K2	CTX-M-3	F	+	+	+	+	+	+	sputum	Kanto
NR3044	23	K1	CTX-M-3	NT	–	+	+	+	+	–	sputum	Kyushu
NR3045	610	ND	CTX-M-15	FIIIk	–	–	+	–	–	–	blood	Tohoku
NR3048	584	ND	CTX-M-14	FIIIk	–	–	–	–	–	–	sputum	Kanto
NR3050	412	K57	CTX-M-15	FIIIk	+	+	+	+	+	+	sputum	Kanto
NR3055	25	K2	CTX-M-14	F	+	+	+	+	+	+	blood	Shikoku
NR3056	290	ND	CTX-M-15	F	–	–	+	–	–	–	blood	Chubu
NR3057	25	K2	CTX-M-3	FIIIk	–	–	–	–	–	–	catheter tip	Kanto

NR3058	25	K2	CTX-M-15	-	-	-	-	-	-	-	-	blood	Kyushu
NR3059	15	ND	CTX-M-27	-	-	-	-	-	-	-	-	urine	Kyushu
NR3062	23	K1	CTX-M-15	FIIk	+	+	+	+	+	+	+	urine	Chugoku
NR3065	4	ND	CTX-M-15	-	-	-	-	-	-	-	-	urine	Kanto
NR3066	268	K20	CTX-M-2	N	+	+	+	+	+	+	-	urine	Kyushu
NR3067	881	ND	CTX-M-14	-	-	-	-	-	-	-	-	urine	Kanto
NR3068	54	ND	CTX-M-15	FIIk	-	-	-	-	-	-	-	urine	Kyushu
NR3072	268	K20	CTX-M-2	N	+	+	+	+	+	+	+	urine	Kinki
NR3076	23	K1	CTX-M-15	FIIk	+	+	+	+	+	+	-	urine	Kanto
NR3080	357	ND	CTX-M-14	IIIr	-	-	-	-	-	-	+	urine	Kanto
NR3083	307	ND	CTX-M-15	FIIk	-	-	-	-	-	-	-	urine	Kyushu
NR3087	25	K2	CTX-M-15	NT	-	-	-	-	-	-	-	urine	Kanto
NR3088	412	K57	CTX-M-15	FIIk	-	+	+	+	+	+	-	vagina	Kyushu
NR3090	37	ND	CTX-M-15	-	-	-	-	-	-	-	-	blood	Kanto
NR3092	2623	ND	CTX-M-15	NT	-	-	-	-	-	-	-	urine	Kanto
NR3095	896	ND	CTX-M-14	FIIK	-	-	-	-	-	-	-	urine	Chubu
NR3096	307	ND	CTX-M-15	-	-	-	-	-	-	-	-	urine	Kanto
NR3098	25	K2	CTX-M-15	NT	-	-	-	-	-	-	-	urine	Kinki
NR3100	4490	ND	CTX-M-15	FIIk	-	-	-	-	-	-	-	urine	Kinki
NR3102	37	ND	CTX-M-14	-	-	-	-	-	-	-	-	urine	Kyushu
NR3113	37	ND	CTX-M-15	FIIk	-	-	-	-	-	-	-	urine	Kanto
NR3115	4491	ND	CTX-M-14	FIIk	-	-	-	-	-	-	+	sputum	Kanto
NR3116	268	K20	CTX-M-15	NT	+	+	+	+	+	+	+	sputum	Kanto

NR3298	23	K1	CTX-M-14	A/C	+	+	+	+	+	+	+	blood	Chubu
NR3300	268	K20	CTX-M-2	-	+	+	+	+	+	+	-	urine	Kyushu
NR3301	37	ND	CTX-M-2	N	-	-	-	-	-	-	-	urine	Shikoku
NR3302	412	K57	CTX-M-15	FIIk	+	+	+	+	+	+	-	urine	Kanto
NR3303	280	ND	CTX-M-14	FIIk	-	-	-	-	-	-	-	urine	Kanto
NR3304	25	K2	CTX-M-15	-	-	-	-	-	-	-	-	sputum	Kyushu
NR3305	25	K2	CTX-M-15	-	-	-	-	-	-	-	-	sputum	Kyushu
NR3306	25	K2	CTX-M-15	NT	-	-	-	-	-	-	-	sputum	Kinki
NR3308	17	ND	CTX-M-14	-	-	-	-	-	-	-	-	sputum	Kanto
NR3309	1307	ND	CTX-M-15	FIIk	-	-	-	-	-	-	-	catheter tip	Kanto
NR3319	412	K57	CTX-M-15	FIIk	-	+	+	-	-	-	-	sputum	Kanto
NR3320	86	K2	CTX-M-15	FIIk, IIR	-	+	+	+	+	+	-	sputum	Kyushu
NR3323	280	ND	CTX-M-15	-	-	-	-	-	-	-	-	sputum	Kyushu
NR3324	290	ND	CTX-M-14	-	-	-	-	-	-	-	-	urine	Kinki
NR3325	65	K2	CTX-M-2	-	+	+	+	+	+	+	+	urine	Kinki
NR3326	101	K2	CTX-M-15	FIIk	-	-	-	-	-	-	-	urine	Chubu
NR3327	540	ND	CTX-M-3	-	-	-	-	-	-	-	-	urine	Kanto
NR3330	45	ND	CTX-M-27	F, FIA, FIB	-	-	-	-	-	-	-	urine	Kyushu
NR3331	45	ND	CTX-M-15	-	-	-	-	-	-	-	+	urine	Kinki
NR3332	36	ND	CTX-M-2	-	+	+	+	+	+	+	+	sputum	Kyushu
NR3334	323	ND	CTX-M-15	FIIk	-	-	-	-	-	-	-	sputum	Kyushu
NR3337	3176	ND	CTX-M-15	-	-	-	-	-	-	-	+	urine	Shikoku

NR3341	307	ND	CTX-M-15	FIIIk	-	-	-	-	-	-	-	urine	Kanto
NR3342	7	K54	CTX-M-14	FIIIk	-	-	-	-	-	-	-	pharynx	Chugoku
NR3346	45	ND	CTX-M-15	-	-	-	-	-	-	-	-	sputum	Kinki
NR3347	17	ND	CTX-M-14	-	-	-	-	-	-	-	-	sputum	Kyushu
NR3350	1086	ND	CTX-M-3	-	-	-	-	-	-	-	-	sputum	Kanto
NR3352	1049	K5	CTX-M-14	FIIIk, N	-	-	-	-	-	-	-	urine	Kanto
NR3354	2286	ND	CTX-M-2	N	-	-	-	-	-	-	-	urine	Shikoku
NR3355	323	ND	CTX-M-15	FIIIk	-	-	-	-	-	-	-	urine	Kanto
NR3356	219	ND	CTX-M-15	-	-	-	-	-	-	-	+	urine	Kanto
NR3361	412	K57	CTX-M-2	N	+	+	+	+	+	+	+	blood	Kyushu
NR3362	86	K2	CTX-M-15	FIIIk	+	+	+	+	+	+	+	blood	Chugoku
NR3365	4	ND	CTX-M-14	-	-	-	-	-	-	-	+	urine	Kyushu
NR3368	355	ND	CTX-M-27	N, F	-	-	-	-	-	-	-	urine	Kinki
NR3369	280	ND	CTX-M-15	FIIIk	-	-	-	-	-	-	-	urine	Kinki
NR3370	307	ND	CTX-M-15	NT	-	-	-	-	-	-	-	urine	Kanto
NR3372	4492	K2	CTX-M-2	N	+	+	+	+	+	+	-	sputum	Tohoku
NR3373	17	ND	CTX-M-14	FIIIk	-	-	-	-	-	-	-	sputum	Kanto
NR3374	268	K20	CTX-M-15	FIIIk	+	+	+	+	+	+	+	sputum	Kinki
NR3375	268	K20	CTX-M-2	N	+	+	+	+	+	+	+	sputum	Kyushu
NR3376	25	K2	CTX-M-15	-	-	-	-	-	-	-	-	sputum	Kyushu
NR3377	23	K1	CTX-M-15	-	+	+	+	+	+	+	+	sputum	Kyushu
NR3379	35	ND	CTX-M-14	-	-	-	-	+	-	-	-	urine	Kyushu
NR3380	3368	ND	CTX-M-15	-	-	-	-	-	-	-	-	urine	Chugoku

NR3384	268	K20	CTX-M-15	–	+	–	–	+	+	–	urine	Kanto
NR3385	15	ND	CTX-M-15	–	–	–	–	–	–	–	blood	Chugoku
NR3386	268	K20	CTX-M-15	FIIk	–	+	+	–	–	–	sputum	Chubu
NR3387	268	K20	CTX-M-2	–	+	+	+	+	+	–	sputum	Kyushu
NR3388	23	K1	CTX-M-14	F	+	+	+	+	+	+	sputum	Tohoku
NR3389	412	K57	CTX-M-15	FIIk	–	+	+	–	–	–	sputum	Kanto
NR3394	412	K57	CTX-M-15	FIIk	–	+	+	–	–	+	blood	Kanto
NR3395	4494	ND	CTX-M-14	–	–	–	–	–	–	–	urine	Kyushu
NR3396	219	ND	CTX-M-15	–	–	–	–	–	–	+	catheter tip	Kanto
NR3397	412	K57	CTX-M-14	–	–	+	+	+	–	–	blood	Kanto
NR3402	45	ND	CTX-M-15	–	–	–	–	–	–	–	urine	Kinki
NR3404	37	ND	CTX-M-14	FIIk	–	–	–	–	–	–	blood	Kinki
NR3406	273	ND	CTX-M-15	FIIk	–	–	–	–	–	–	blood	Kyushu

Abbreviations: ESBL, extended-spectrum β -lactamase; NT, nontypeable; ST, sequence type.

^a ND, not K1, K2, K5, K20, K54, or K57 capsule type.

^b Replicon types identified in transconjugants; – indicates failed conjugation.