

New Delhi Metallo- β -Lactamase–Producing *Enterobacteriales* Bacteria, Switzerland, 2019–2020

Appendix

Appendix Table. Plasmid mapping analyses performed on all 108 sequenced isolates in study of *Enterobacteriales* bacteria, detailing highly similar plasmids ($\geq 95\%$ coverage and identity), replicon types, and RMTase genes identified in both reference plasmids and the study isolates.

Isolate	Species	ST	NDM variant	Plasmid mapping/ID (%)	GenBank accession no.	Plasmid size, bp	Country in which described	Replicon	RMTase ID'd in ref plasmid	RMTase ID'd in isolate
N489	<i>Escherichia coli</i>	405	NDM-5	pYJ4-NDM-5, 100	AP023231	83453	Myanmar	FII		
N525	<i>Escherichia coli</i>	405	NDM-5	pCH18NDM5 (100)	PRJNA630933	86167	Switzerland	FII		
N568	<i>Escherichia coli</i>	167	NDM-5	ND	ND	ND	ND	ND		
N640	<i>Escherichia coli</i>	167	NDM-5	pM217-FII (100)	AP018147	102071	Myanmar	FII	rmtB	rmtB
N653	<i>Escherichia coli</i>	1284	NDM-5	pNDM-5-1001 (95)	MH985167	90378	China	FII, FIA, FIB(AP001918)		
N665	<i>Escherichia coli</i>	167	NDM-5	pEsco-5256cz (100)	MG252891	46161	Czechia	X3		
N679	<i>Escherichia coli</i>	648	NDM-5	pCH11NDM5 (100)	PRJNA630933	124740	Switzerland	FII, FIBpB171		
N689	<i>Escherichia coli</i>	361	NDM-5	ND	ND	ND	ND	ND		
N737	<i>Escherichia coli</i>	540	NDM-1	ND	ND	ND	ND	ND		
N836	<i>Escherichia coli</i>	95	NDM-1	ND	ND	ND	ND	ND		
N897	<i>Escherichia coli</i>	354	NDM-5	p1ESCUMpO83 (95)	CP034254	92840	India	FII	rmtB	rmtB
N898	<i>Escherichia coli</i>	167	NDM-5	ND	ND	ND	ND	ND		
N901	<i>Escherichia coli</i>	354	NDM-5	p1ESCUMpO83 (95)	CP034254	92840	India	FII	rmtB	rmtB
N935	<i>Escherichia coli</i>	648	NDM-5	pCH11NDM5 (100)	PRJNA630933	124740	Switzerland	FII, FIBpB171		
N1013	<i>Escherichia coli</i>	361	NDM-5	pIncF (97)	MW048884	115830	Italy	FII, FIA		
N1014	<i>Escherichia coli</i>	1588	NDM-5	pIncF (97)	MW048884	115830	Italy	FII, FIA		
N1070	<i>Escherichia coli</i>	405	NDM-5	ND	ND	ND	ND	ND		
N1076	<i>Escherichia coli</i>	940	NDM-5	pEsco-5256cz (100)	MG252891	46161	Czechia	X3		
N1081	<i>Escherichia coli</i>	361	NDM-5	pIncF (97)	MW048884	115830	Italy	FII, FIA		
N1097	<i>Escherichia coli</i>	1431	NDM-5	pEsco-5256cz (100)	MG252891	46161	Czechia	X3		
N1115	<i>Escherichia coli</i>	410	NDM-5	pAMA1167-NDM-5 (97)	CP024805	111310	Denmark	FIA, FIB(AP001918), FII(pAMA), Q1		
N1146	<i>Escherichia coli</i>	167	NDM-5	pIncF (95)	MW048884	115830	Italy	FII, FIA		
N1153	<i>Escherichia coli</i>	167	NDM-5	pIncF (95)	MW048884	115830	Italy	FII, FIA		rmtB
N1235	<i>Escherichia coli</i>	1431	NDM-5	pEsco-5256cz (100)	MG252891	46161	Czechia	X3		
N1239	<i>Escherichia coli</i>	167	NDM-5	pIncF (97)	MW048884	115830	Italy	FII, FIA		

Isolate	Species	ST	NDM variant	Plasmid mapping/ID (%)	GenBank accession no.	Plasmid size, bp	Country in which described	Replicon	RMTase ID'd in ref plasmid	RMTase ID'd in isolate
N1241	<i>Escherichia coli</i>	410	NDM-5	pAMA1167-NDM-5 (97)	CP024805	111310	Denmark	FIA, FIB(AP001918), FII(pAMA), Q1		
N1255	<i>Escherichia coli</i>	361	NDM-5	ND	ND	ND	ND	ND		
N1388	<i>Escherichia coli</i>	154	NDM-1	ND	ND	ND	ND	ND		
N1416	<i>Escherichia coli</i>	405	NDM-5	p2947-NDM-5 (99)	CP046261	66053	China	FII		
N1439	<i>Escherichia coli</i>	69	NDM-5	ND	ND	ND	ND	ND		
N1442	<i>Escherichia coli</i>	405	NDM-5	ND	ND	ND	ND	ND		
N1452	<i>Escherichia coli</i>	167	NDM-5	ND	ND	ND	ND	ND		
N1454	<i>Escherichia coli</i>	410	NDM-5	pABC280-NDM-5 (100)	MK372392	35502	UAE	X3		
N1470	<i>Escherichia coli</i>	617	NDM-5	pIncF (100)	MW048884	115830	Italy	FII, FIA		
N1494	<i>Escherichia coli</i>	410	NDM-5	pNDM-5-IT (96)	MG649062	99476	Italy	FII		rmtB
N1508	<i>Escherichia coli</i>	410	NDM-5	pNDM-5-IT (97)	MG649062	99476	Italy	FII		rmtB
N1592	<i>Escherichia coli</i>	34	NDM-1	ND	ND	ND	ND	ND		
N1606	<i>Escherichia coli</i>	361	NDM-5	p91_NDM-5 (98)	MN007141	125861	Italy	FII, FIA	rmtB	rmtB
N1612	<i>Escherichia coli</i>	410	NDM-5	p100_NDM-5 (96)	MN007143	99568	Italy	FII, FIA, FIB(AP001918)		
N1642	<i>Escherichia coli</i>	361	NDM-5	pIncF (97)	MW048884	115830	Italy	FII, FIA		
N1644	<i>Escherichia coli</i>	361	NDM-5	ND	ND	ND	ND	ND		
N1648	<i>Escherichia coli</i>	361	NDM-5	ND	ND	ND	ND	ND		
N1691	<i>Escherichia coli</i>	167	NDM-5	pIncF (98)	MW048884	115830	Italy	FII, FIA		
N1700	<i>Escherichia coli</i>	69	NDM-1	ND	ND	ND	ND	ND		
N1718	<i>Escherichia coli</i>	410	NDM-5	pABC280-NDM-5 (100)	MK372392	35502	UAE	X3		rmtB
N1733	<i>Escherichia coli</i>	349	NDM-1	pKP1-NDM-1 (100)	KF992018	137552	Australia	C	rmtC	rmtC
N664	<i>Klebsiella pneumoniae</i>	147	NDM-1	pM321-NDM-1 (100)	AP018834	54064	Myanmar	FIB(pQIL)		
N706	<i>Klebsiella pneumoniae</i>	147	NDM-1	pM321-NDM-1 (100)	AP018834	54064	Myanmar	FIB(pQIL)		
N735	<i>Klebsiella pneumoniae</i>	11	NDM-1	pAR_0146 (100)	CP021962	132217	USA	FII(pKPX1)		
N749	<i>Klebsiella pneumoniae</i>	101	NDM-1	ND	ND	ND	ND	ND		rmtC
N768	<i>Klebsiella pneumoniae</i>	11	NDM-1	pTR1 (96)	KJ187751	314436	Taiwan	FIIK		
N821	<i>Klebsiella pneumoniae</i>	16	NDM-1	pKL8-NDM (100)	MH523448	120614	Italy	FII, FIA, FIB(AP001918)		
N829	<i>Klebsiella pneumoniae</i>	147	NDM-1	ND	ND	ND	ND	ND		armA
N900	<i>Klebsiella pneumoniae</i>	11	NDM-1	pAR_0146 (100)	CP021962	132217	USA	FII(pKPX1)		
N934	<i>Klebsiella pneumoniae</i>	11	NDM-1	pAR_0146 (100)	CP021962	132217	USA	FII(pKPX1)		armA
N940	<i>Klebsiella pneumoniae</i>	147	NDM-1	ND	ND	ND	ND	ND		
N972	<i>Klebsiella pneumoniae</i>	16	NDM-5	pABC280-NDM-5 (97)	MK372392	35502	UAE	X3		rmtB, rmtF
N1043	<i>Klebsiella pneumoniae</i>	4436	NDM-1	pNDM-1-plasmid2 (100)	CP009115	118061	USA	FIIK, FIB(pQIL)		
N1052	<i>Klebsiella pneumoniae</i>	395	NDM-1	ND	ND	ND	ND	ND		armA
N1071	<i>Klebsiella pneumoniae</i>	147	NDM-1	pM321-NDM-1 (100)	AP018834	54064	Myanmar	FIB(pQIL)		armA
N1075	<i>Klebsiella pneumoniae</i>	2735	NDM-5	pEsco-5256cz (100)	MG252891	46161	Czechia	X3		
N1080	<i>Klebsiella pneumoniae</i>	11	NDM-1	ND	ND	ND	ND	ND		rmtB
N1086	<i>Klebsiella pneumoniae</i>	247	NDM-1	ND	ND	ND	ND	ND		armA
N1095	<i>Klebsiella pneumoniae</i>	437	NDM-1	ND	ND	ND	ND	ND		
N1102	<i>Klebsiella pneumoniae</i>	101	NDM-4	ND	ND	ND	ND	ND		
N1112	<i>Klebsiella pneumoniae</i>	16	NDM-1	pNDM-1-plasmid2 (100)	CP009115	118061	USA	FIIK, FIB(pQIL)		

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N1130	<i>Klebsiella pneumoniae</i>	437	NDM-1	pKP1-NDM-1 (95)	KF992018	137552	Australia	C		armA
N1154	<i>Klebsiella pneumoniae</i>	11	NDM-4	pABC302-NDM-4 (100)	MK372388	49402	UAE	FII, FIA		
N1159	<i>Klebsiella pneumoniae</i>	147	NDM-5	pYJ6-NDM5 (99)	AP023236	94613	Myanmar	FII	rmtB	rmtB, rmtF
N1184	<i>Klebsiella pneumoniae</i>	11	NDM-5	pEsco-5256cz (100)	MG252891	46161	Czechia	X3		
N1202	<i>Klebsiella pneumoniae</i>	437	NDM-1	ND	ND	ND	ND	ND		
N1232	<i>Klebsiella pneumoniae</i>	231	NDM-5	pYJ6-NDM5 (98)	AP023236	94613	Myanmar	FII	rmtB	rmtB
N1259	<i>Klebsiella pneumoniae</i>	147	NDM-1	ND	ND	ND	ND	ND		armA
N1381	<i>Klebsiella pneumoniae</i>	2670	NDM-1	ND	ND	ND	ND	ND		
N1418	<i>Klebsiella pneumoniae</i>	147	NDM-5	pYJ6-NDM5 (98)	AP023236	94613	Myanmar	FII	rmtB	rmtB
N1436	<i>Klebsiella pneumoniae</i>	147	NDM-1	pM321-NDM-1 (99)	AP018834	54064	Myanmar	FIB(pQIL)		
N1437	<i>Klebsiella pneumoniae</i>	392	NDM-1	pYJ6-NDM5 (98)	AP023236	94613	Myanmar	FII	rmtB	
N1448	<i>Klebsiella pneumoniae</i>	147	NDM-1	pM321-NDM-1 (100)	AP018834	54064	Myanmar	FIB(pQIL)		armA
N1498	<i>Klebsiella pneumoniae</i>	147	NDM-1	ND	ND	ND	ND	ND		armA
N1605	<i>Klebsiella pneumoniae</i>	11	NDM-1	pAR_0146 (100)	CP021962	132217	USA	FII(pKPX1)		armA
N1626	<i>Klebsiella pneumoniae</i>	11	NDM-1	pAR_0146 (100)	CP021962	132217	USA	FII(pKPX1)		
N1672	<i>Klebsiella pneumoniae</i>	147	NDM-1	ND	ND	ND	ND	ND		
N1683	<i>Klebsiella pneumoniae</i>	11	NDM-1	pAR_0146 (100)	CP021962	132217	USA	FII(pKPX1)		
N1692	<i>Klebsiella pneumoniae</i>	147	NDM-1	pM321-NDM-1 (100)	AP018834	54064	Myanmar	FIB(pQIL)		
N1694	<i>Klebsiella pneumoniae</i>	512	NDM-1	pNDM-QD28 (97)	KU167608	46161	China	X3		armA
N1696	<i>Klebsiella pneumoniae</i>	395	NDM-1	pKP1-NDM-1 (95)	KF992018	137552	Australia	C	rmtC	armA
N1712	<i>Klebsiella pneumoniae</i>	147	NDM-1	pM321-NDM-1 (100)	AP018834	54064	Myanmar	FIB(pQIL)		armA
N1723	<i>Klebsiella pneumoniae</i>	76	NDM-1	ND	ND	ND	ND	ND		armA
N727	<i>Enterobacter cloacae</i> complex	114	NDM-1	ND	ND	ND	ND	ND		
N840	<i>Enterobacter cloacae</i> complex	114	NDM-5	p38_A-OXA140 (95)	CP048377	86996	Switzerland	FIA, FIB(AP001918), FII(pAMA1167-NDM-5)		
N853	<i>Enterobacter cloacae</i> complex	136	NDM-1	ND	ND	ND	ND	ND		
N971	<i>Enterobacter cloacae</i> complex	121	NDM-1	pNDM-US (95)	CP006661	140825	USA	C	rmtC	armA
N1033	<i>Enterobacter cloacae</i> complex	66	NDM-1	pEsco-5256cz (99)	MG252891	46161	Czechia	X3		
N1038	<i>Enterobacter cloacae</i> complex	66	NDM-1	pEsco-5256cz (99)	MG252891	46161	Czechia	X3		
N1059	<i>Enterobacter cloacae</i> complex	91	NDM-1	pNDM-18ES (100)	MF042350	110432	Romania	FII(Yp)	rmtC	rmtC
N1101	<i>Enterobacter cloacae</i> complex	171	NDM-1	pEsST410_NW_NDM (97)	CP031235	85456	UK	M2	armA	armA
N1143	<i>Enterobacter cloacae</i> complex	171	NDM-1	pNDM1_045001 (95)	CP043383	85718	China	NT	rmtB	
N1373	<i>Enterobacter cloacae</i> complex	231	NDM-1	ND	ND	ND	ND	ND		

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N1405	<i>Enterobacter cloacae</i> complex	111	NDM-1	ND	ND	ND	ND	ND		
N1491	<i>Enterobacter cloacae</i> complex	78	NDM-1	ND	ND	ND	ND	ND		rmtC
N1497	<i>Enterobacter cloacae</i> complex	66	NDM-7	pEsco-5256cz (99)	MG252891	46161	Czechia	X3		
N1730	<i>Enterobacter cloacae</i> complex	182	NDM-1	ND	ND	ND	ND	ND		rmtC
N835	<i>Klebsiella quasipneumoniae</i>	5330	NDM-1	ND	ND	ND	ND	ND		
N1114	<i>Klebsiella quasipneumoniae</i>	4834	NDM-1	ND	ND	ND	ND	ND		
N1598	<i>Klebsiella quasipneumoniae</i>	novel	NDM-1	ND	ND	ND	ND	ND		
N676	<i>Klebsiella aerogenes</i>	93	NDM-5	pYJ4-NDM-5 (100)	AP023231	83453	Myanmar	FII		
N1431	<i>Klebsiella aerogenes</i>	93	NDM-5	pYJ4-NDM5 (97)	AP023231	83453	Myanmar	FII		
N1538	<i>Klebsiella variicola</i>	NA	NDM-1	ND	ND	ND	ND	ND		rmtC

ND; not determined; ST, sequence type.