

Table S2: Western Australian *N. gonorrhoeae* isolates metadata and genetic characteristics of antimicrobial resistance

Isolate	RecdDate	Location	Pen MIC	Pen Interpretation	Cef MIC	Cef Interpretation	Cip MIC	Cip Interpretation	Tet MIC	Tet Interpretation	Spe MIC	Azi MIC	Azi Interpretation	Spe Interpretation	Core genome cluster	Population structure group	MLST	NG-MS*	NG-STAR	Macrolids 23S_rRNA	B-lactams NEIS1014_posA	B-lactams NEIS1233_posB	B-lactams NEIS2020_posB	B-lactams posB_type	Fluoroquinolones NEIS1230_gyrA	Fluoroquinolones NEIS1525_posC	Ethex pumps NEIS1635_ntrB	Ethex pumps pos_NEIS1635	plasmid216	plasmid10	plasmid215	plasmid217	ESCs		
EnNg 202	1/18/2011	Remonte	0.125	LS	<-0.008	S	<-0.03	S	<-8	Not TRNG	<-0.4	<-0.5	S	S	A	Au1	12045	1498	NV17	10	13 (L421P)	166	1429	IA	230	952	812 (ASP7)	6	Neg	Neg	612	Pos	Neg		
EnNg 204	1/22/2011	Remonte	0.25	LS	<-0.008	S	<-0.03	S	<-8	Not TRNG	<-0.4	<-0.5	S	S	B	Au1	7363	10103	NV12	10	13 (L421P)	166	704	IA	807	402	808 (ASP7)	6	Neg	17	Pos	Neg	17	Pos	Neg
EnNg 205	2/2/2011	Remonte	0.25	LS	<-0.008	S	<-0.03	S	<-8	Not TRNG	<-0.4	<-0.5	S	S	B	Au1	7363	10080	NV11	10	13 (L421P)	166	1430 (GI20K, A121V)	IB	807	402	808 (ASP7)	6	Neg	Neg	17	Pos	Neg		
EnNg 209	3/11/2011	Metropolitan	0.125	LS	<-0.008	S	<-0.03	S	>=16	TRNG	<-0.4	<-0.5	S	S	C	Au2	12042	9716	NV5	539	13 (L421P)	23	1431	IA	19	951	953 (BC)	6	2 (American)	Neg	17	Pos	pEG500 (American)		
EnNg 210	3/28/2011	Remonte	0.06	LS	<-0.008	S	<-0.03	S	<-8	Not TRNG	<-0.4	<-0.6	S	S	B	Au1	12040	7126	NV8	10	8	166	704	IA	230	952	808 (ASP7)	6	Neg	Neg	17	Pos	Neg		
EnNg 213	5/19/2011	Remonte	0.125	LS	<-0.008	S	<-0.03	S	<-8	Not TRNG	<-0.4	<-0.5	S	S	B	Au1	12040	7126	NV8	10	8	166	704	IA	230	402	808 (ASP7)	6	Neg	Neg	17	Pos	Neg		
EnNg 214	6/1/2011	Remonte	0.125	LS	<-0.008	S	<-0.03	S	<-8	Not TRNG	<-0.4	<-0.5	S	S	A	Au1	12045	758	NV15	10	13 (L421P)	166	536	IA	230	955	953 (BC)	6	Neg	Neg	612	Pos	Neg		
EnNg 217	6/15/2011	Remonte	0.125	LS	<-0.008	S	<-0.03	S	<-8	Not TRNG	<-0.4	<-0.5	S	S	A	Au1	12045	758	NV14	10	13 (L421P)	166	536	IA	230	955	808 (ASP7)	6	Neg	Neg	612	Pos	Neg		
EnNg 218	6/27/2011	Remonte	0.06	LS	<-0.008	S	<-0.03	S	<-8	Not TRNG	<-0.4	<-0.5	S	S	B	Au1	7363	10103	NV12	10	13 (L421P)	166	704	IA	807	402	808 (ASP7)	6	Neg	Neg	17	Pos	Neg		
EnNg 219	7/4/2011	Remonte	0.125	LS	<-0.008	S	<-0.03	S	<-8	Not TRNG	<-0.4	<-0.5	S	S	B	Au1	7363	7803	NV12	10	13 (L421P)	166	704	IA	807	402	808 (ASP7)	6	Neg	Neg	17	Pos	Neg		
EnNg 224	7/29/2011	Metropolitan	0.25	LS	<-0.008	S	<-0.03	S	<-8	Not TRNG	<-0.4	<-0.5	S	S	B	Au1	12040	7823	NV7	10	13 (L421P)	166	609	IA	230	402	808 (ASP7)	6	Neg	Neg	17	Pos	Neg		
EnNg 225	8/3/2011	Remonte	0.125	LS	<-0.008	S	<-0.03	S	<-8	Not TRNG	<-0.4	<-0.5	S	S	A	Au1	12045	758	NV14	10	13 (L421P)	166	536	IA	230	953	808 (ASP7)	6	Neg	Neg	612	Pos	Neg		
EnNg 226	9/5/2011	Remonte	>=2	PPNG	<-0.008	S	>=4	R	>=16	TRNG	<-0.4	<-0.5	S	S	S	Iu1	8145	436	NC2	430	8	166	1432	IA	234 (SH1E, D95A)	948 (DSN8)	16	3 (-35A)	1 (Duch)	3 (bITEM-1)	17	Neg	pEG500 (American)		
EnNg 229	11/15/2011	Metropolitan	0.125	LS	<-0.008	S	<-0.03	S	<-8	Not TRNG	<-0.4	<-0.5	S	S	A	Au1	12045	758	NV14	10	13 (L421P)	166	536	IA	230	952	808 (ASP7)	6	Neg	Neg	17	Pos	Neg		
EnNg 230	11/15/2011	Remonte	0.125	LS	<-0.008	S	<-0.03	S	>=16	TRNG	<-0.4	<-0.5	S	S	C	Au2	12042	9716	NV5	539	13 (L421P)	23	1431	IA	19	951	953 (BC)	6	2 (American)	Neg	17	Pos	pEG500 (American)		
EnNg 232	11/17/2011	Metropolitan	1	CMRP	0.016	S	>=4	H	<-8	Not TRNG	<-0.4	<-0.5	S	S	S	Iu1	1901	225	177	231	23	283	544 (GI20K, A121D)	IB	231 (SH1E, D95G)	243 (SSTR)	13	3 (-35A)	Neg	Neg	18 (R25H)	Neg	Neg		
EnNg 234	11/29/2011	Metropolitan	0.125	LS	<-0.008	S	<-0.03	S	<-8	Not TRNG	<-0.4	<-0.5	S	S	A	Au1	12045	758	NV14	10	13 (L421P)	166	536	IA	230	952	808 (ASP7)	6	Neg	Neg	17	Pos	Neg		
EnNg 235	1/3/2012	Metropolitan	1	PPNG	<-0.008	S	>=4	H	<-8	Not TRNG	<-0.4	<-0.5	S	S	A	Iu1	1924	10105	NV2	234	8	23	1441	IA	19	631	193 (ASP7)	6	1 (Duch)	3 (bITEM-1)	20	Pos	pEP289 (Dutch)		
EnNg 236	1/6/2012	Metropolitan	0.125	LS	<-0.008	S	<-0.03	S	<-8	Not TRNG	<-0.4	<-0.5	S	S	A	Au1	12045	758	NV14	10	13 (L421P)	166	536	IA	230	952	808 (ASP7)	6	Neg	Neg	17	Pos	Neg		
EnNg 237	2/7/2012	Metropolitan	1	CMRP	0.06	DS	>=4	H	<-8	Not TRNG	<-0.4	<-0.5	S	S	A	Iu2	7360	1407	90	387	17 (L421P)	266 (XXXIV Mosaic)	552 (GI20K, A121N)	IB	14 (SH1E, D95G)	104 (SSTR)	13	3 (-35A)	Neg	Neg	18 (R25H)	Pos	Neg		
EnNg 238	2/18/2012	Metropolitan	>=2	PPNG	<-0.008	S	>=4	H	<-8	Not TRNG	<-0.4	<-0.5	S	S	B	Iu1	1588	1015	NC1	231	13 (L421P)	228	1436 (GI20K, A121G)	IB	234 (SH1E, D95A)	405 (SSTR)	333 (ASP7)	6	2 (American)	3 (bITEM-1)	17	Neg	pEG500 (American)		
EnNg 239	2/27/2012	Remonte	0.25	LS	<-0.008	S	<-0.03	S	<-8	Not TRNG	<-0.4	<-0.5	S	S	B	Au1	7363	7206	NV6	10	13 (L421P)	166	1430 (GI20K, A121V)	IB	230	947	808 (ASP7)	6	Neg	Neg	20	Pos	Neg		
EnNg 242	2/28/2012	Remonte	0.25	LS	<-0.008	S	<-0.03	S	<-8	Not TRNG	<-0.4	<-0.5	S	S	S	Iu1	7359	4186	231	231	607	23	1435 (GI20K, A121V)	IB	646	804	193 (ASP7)	14	Neg	Neg	20	Pos	Neg		
EnNg 248	5/16/2012	Metropolitan	0.125	LS	<-0.008	S	<-0.03	S	<-8	Not TRNG	<-0.4	<-0.5	S	S	S	Iu1	7359	4186	231	231	607	23	1435 (GI20K, A121V)	IB	646	804	193 (ASP7)	14	Neg	Neg	20	Pos	Neg		
EnNg 250	6/28/2012	Metropolitan	0.125	LS	<-0.008	S	<-0.03	S	<-8	Not TRNG	<-0.4	<-0.5	S	S	A	Iu3	1584	4768	178	231	8	294	874 (GI20K, A121V)	IB	19	260	371 (BC)	6	Neg	Neg	17	Pos	pEP233		
EnNg 252	7/23/2012	Remonte	0.125	LS	<-0.008	S	<-0.03	S	<-8	Not TRNG	<-0.4	<-0.5	S	S	A	Au1	12045	758	NV14	538	13 (L421P)	166	536	IA	230	952	809 (ASP7)	6	Neg	Neg	612	Pos	Neg		
EnNg 253	7/30/2012	Remonte	0.125	LS	<-0.008	S	<-0.03	S	<-8	Not TRNG	<-0.4	<-0.5	S	S	B	Au1	12040	7126	NV9	10	8	166	704	IA	230	402	808 (ASP7)	6	Neg	Neg	17	Pos	Neg		
EnNg 254	8/21/2012	Metropolitan	0.25	LS	<-0.008	S	<-0.03	S	<-8	Not TRNG	<-0.4	<-0.5	S	S	B	Au1	7363	1017	NV7	10	13 (L421P)	166	1442	IA	230	402	808 (ASP7)	6	Neg	Neg	17	Pos	Neg		
EnNg 257	9/4/2012	Metropolitan	>=2	PPNG	0.016	DS	>=4	H	<-8	Not TRNG	<-0.4	<-0.5	S	S	S	Iu1	7822	10106	73	430	15 (L421P)	124 (GI20K, A121D)	IB	234 (SH1E, D95A)	509 (SSTR)	12 (G4SD)	3 (-35A)	1 (Duch)	2 (bITEM-135)	17	Neg	pEP289 (Dutch)			
EnNg 259	9/21/2012	Remonte	0.125	LS	<-0.008	S	<-0.03	S	<-8	Not TRNG	<-0.4	<-0.5	S	S	C	Au1	12040	7126	NV8	10	8	166	704	IA	230	402	808 (ASP7)	6	Neg	Neg	17	Pos	Neg		
EnNg 261	9/29/2012	Metropolitan	0.125	LS	<-0.008	S	<-0.03	S	>=16	TRNG	<-0.4	<-0.5	S	S	C	Au2	12042	9716	NV5	539	13 (L421P)	23	1431	IA	19	951	953 (BC)	6	2 (American)	Neg	17	Pos	pEG500 (American)		
EnNg 264	10/8/2012	Remonte	0.25	LS	<-0.008	S	<-0.03	S	>=16	TRNG	<-0.4	<-0.5	S	S	C	Au2	12042	9716	NV5	539	13 (L421P)	23	1431	IA	19	951	953 (BC)	6	2 (American)	Neg	17	Pos	pEG500 (American)		
EnNg 266	10/9/2012	Remonte	0.25	LS	<-0.008	S	<-0.03	S	<-8	Not TRNG	<-0.4	<-0.5	S	S	A	Au1	7363	7206	NV6	10	13 (L421P)	166	1430 (GI20K, A121V)	IB	816	947	808 (ASP7)	6	Neg	Neg	20	Pos	Neg		
EnNg 270	11/0/2013	Remonte	0.25	LS	<-0.008	S	>=4	H	<-8	Not TRNG	<-0.4	<-0.5	S	S	S	Iu1	7822	5267	73	304	16 (L421P)	23	1437 (GI20K, A121D)	IB	234 (SH1E, D95A)	509 (SSTR)	12 (G4SD)	3 (-35A)	new (BC)	Neg	17	Pos	pEP289 (Dutch)		
EnNg 271	3/7/2013	Remonte	0.125	LS	<-0.008	S	<-0.03	S	>=16	TRNG	<-0.4	<-0.5	S	S	C	Au2	12042	9716	NV5	539	13 (L421P)	23	1431	IA	19	951	953 (BC)	6	2 (American)	Neg	17	Pos	pEG500 (American)		
EnNg 272	4/14/2013	Metropolitan	0.25	LS	<-0.008	S	<-0.03	S	<-8	Not TRNG	<-0.4	<-0.5	S	S	B	Au1	7363	10117	NV7	10	13 (L421P)	166	1442	IA	230	402	808 (ASP7)	6	Neg	Neg	17	Neg	Neg		
EnNg 277	6/24/2013	Remonte	0.125	LS	<-0.008	S	<-0.03	S	<-8	Not TRNG	<-0.4	<-0.5	S	S	B	Au1	12044	10118	NV6	430	13 (L421P)	166	1443 (GI20K, A121V)	IB	230	402	808 (ASP7)	6	Neg	Neg	17	Pos	Neg		
EnNg 278	6/24/2013	Remonte	0.125	LS	<-0.008	S	<-0.03	S	<-8	Not TRNG	<-0.4	<-0.5	S	S	A	Au1	12046	8063	NV17	10	13 (L421P)	166	704	IA	230	952	808 (ASP7)	6	Neg	Neg	17	Pos	pEP233		
EnNg 281	6/29/2013	Metropolitan	2	CMRP	0.03	DS	>=4	H	<-8	Not TRNG	<-0.4	<-0.5	S	S	A	Iu2	1901	4822	90	437	18 (L421P)	266 (XXXIV Mosaic)	1438 (GI20K, A121N)	IB	14 (SH1E, D95G)	104 (SSTR)	13	3 (-35A)	Neg	Neg	18 (R25H)	Pos	Neg		
EnNg 282	7/4/2013	Remonte	0.25	LS	<-0.008	S	<-0.03	S	<-8	Not TRNG	<-0.4	<-0.5	S	S	A	Au1	12045	7126	NV17	10	13 (L421P)	166	704	IA	230	953	811 (ASP7)	6	Neg	Neg	612	Pos	Neg		
EnNg 283	7/7/2013	Remonte	>=2	PPNG	<-0.008	S	>=4	H	<-8	Not TRNG	<-0.4	<-0.5	S	S	S	Iu1	1890	8842	NV1	234	13 (L421P)	515	1439	IA	193 (ASP7)	6	Neg	3 (bITEM-1)	17	Neg	Neg	17	Pos	Neg	
EnNg 285	7/17/2013	Remonte	0.25	LS	<-0.008	S	<-0.03	S	<-8	Not TRNG	<-0.4	<-0.5	S	S	A	Au1	12045	758	NV16	10	13 (L421P)	166	536	IA	230	953	810 (ASP7)	6	Neg	Neg	612	Pos	Neg		