

Supplemental table 1: The information of the tested isolates.

Isolate	CDS0777		CDS0114	CDS0088			CDS1981		CDS776	CDS530	MCG group	<i>sly</i>	<i>ef</i>	<i>mrp</i>	CDS 2157	Serotype	MLST	clonal complex
	824818	825000	107453	81999	81404	81419	2028744	2028696	822644	572576								
YS1	T	G	A	G	A	T	A	G	C	G	1	+	+	-	2	ST1	1	
YS2	T	G	G	G	A	T	G	G	C	G	4			NA1	2	ST28	6	
YS3	T	G	A	G	A	T	G	G	C	G	N *			NA1	11	ST304		
YS4	T	G	G	G	A	T	G	G	C	G	4			NA1	1/2	ST28	6	
YS5	T	G	A	G	A	T	A	G	C	G	1	+	+	EU	-	1/2	ST1	1
YS6	T	G	A	G	A	T	A	G	C	G	1	+	+	EU	-	2	ST1	1
YS7	T	G	A	T	A	T	G	G	C	G	6				untypable	ST305		
YS8	T	G	A	T	A	T	G	G	C	G	6				untypable	ST305		
YS9	T	G	A	G	A	T	A	G	C	G	1	+	+	EU	-	14	ST1	1
YS10	T	A	A	G	A	T	G	G	C	G	5			NA1	12	ST306		
YS11	C	G	A	G	A	T	G	G	C	G	2			NA2	8	ST308	3	
YS12	T	G	A	G	A	T	A	G	C	G	1	+	+	NA2	7	ST17	2	
YS13	T	G	A	G	A	T	G	G	C	A	7-3				9	ST307	9	
YS14	C	G	A	G	A	T	G	G	C	G	2			NA2	8	ST308	3	
YS15	T	G	A	G	A	T	G	G	C	A	7-3				10	ST311		
YS16	T	G	A	G	A	G	G	G	C	G	7-2				31	ST309		
YS17	T	G	A	G	A	T	G	G	C	A	7-3				31	ST327		
YS18	T	G	G	G	A	T	G	G	C	G	4			NA1	2	ST28	6	
YS19	T	G	G	G	A	T	G	G	C	G	4			NA1	2	ST28	6	
YS20	T	G	G	G	A	T	G	G	C	G	4			NA1	2	ST28	6	

YS21	T	G	A	T	A	T	G	G	C	G	6		untypable	ST310	
YS22	T	G	A	T	A	T	G	G	C	G	6		untypable	ST310	
YS23	T	G	A	T	A	T	G	G	C	G	6		untypable	ST328	
YS24	T	G	A	G	A	T	G	G	C	A	7-3		10	ST311	
YS25	T	G	A	G	A	T	G	G	C	A	7-3		10	ST311	
YS26	T	G	G	G	A	T	G	G	C	G	4	NA1	1/2	ST28	6
YS27	T	G	A	T	A	T	G	G	C	G	6		untypable	ST312	
YS28	T	G	A	T	A	T	G	G	C	G	6		21	ST338	
YS29	T	G	G	G	A	T	G	G	C	G	4	NA1	2	ST28	6
YS30	T	G	A	G	G	T	G	G	C	G	7-1	NA1	12	ST316	
YS31	T	A	A	G	A	T	G	G	C	G	5	NA1	12	ST313	5
YS32	T	G	A	G	A	T	G	G	C	G	N *		11	untypable	
YS33	T	G	A	G	A	T	G	G	C	A	7-3		untypable	ST423	12
YS34	T	G	A	G	A	T	G	G	C	A	7-3		untypable	ST314	
YS35	T	G	A	G	A	G	G	G	C	G	7-2		untypable	ST315	
YS36	T	A	A	G	A	T	G	G	C	G	5	NA1	12	ST313	5
YS37	T	G	A	G	A	T	G	G	C	A	7-3		untypable	ST339	12
YS38	T	G	A	G	A	G	G	G	C	G	7-2		untypable	ST315	
YS39	T	G	A	G	G	T	G	G	C	G	7-1	NA1	12	ST316	
YS40	T	G	A	G	A	T	G	G	C	A	7-3		16	ST424	
YS41	T	G	A	G	A	T	G	G	C	G	N *		untypable	ST340	
YS42	T	G	A	T	A	T	G	G	C	G	6		untypable	ST341	
YS43	T	G	A	G	A	T	G	G	C	A	7-3		untypable	ST317	
YS44	T	A	A	G	A	T	G	G	C	G	5	NA1	11	ST318	5
YS45	T	A	A	G	A	T	G	G	C	G	5	NA1	11	ST318	5
YS46	T	G	A	T	A	T	G	G	C	G	6		untypable	untypable	

YS47	T	G	A	T	A	T	G	G	C	G	6		29	ST330	10
YS48	T	G	A	T	A	T	G	G	C	G	6		29	ST425	10
YS49	T	G	A	T	A	T	G	G	C	G	6		untypable	ST329	10
YS50	T	G	A	T	A	T	G	G	C	G	6		29	ST330	10
YS51	T	A	A	G	A	T	G	G	C	G	5	NA1	11	ST318	5
YS52	T	G	A	G	A	T	G	G	T	G	3		5	ST342	
YS53	T	A	A	G	A	T	G	G	C	G	5	NA1	11	ST318	5
YS54	T	G	A	T	A	T	G	G	C	G	6		29	ST319	
YS55	T	G	A	T	A	T	G	G	C	G	6		29	ST343	
YS56	T	G	A	G	A	G	G	G	C	G	7-2		untypable	ST331	
YS57	T	G	A	T	A	T	G	G	C	G	6		untypable	ST320	
YS58	T	G	A	T	A	T	G	G	C	G	6		29	ST344	
YS59	T	A	A	G	A	T	G	G	C	G	5	NA1	12	ST313	5
YS60	T	G	A	T	A	T	G	G	C	G	6		29	untypable	
YS61	T	G	A	T	A	T	G	G	C	G	6		29	untypable	
YS62	T	G	A	G	A	T	G	G	C	G	N *		11	ST345	
YS63	T	G	G	G	A	T	G	G	C	G	4	+	7	ST32	4
YS64	T	G	A	G	A	T	G	G	C	G	N *	NA1	11	ST345	
YS65	T	G	A	T	A	T	G	G	C	G	6		29	ST346	
YS66	T	G	G	G	A	T	G	G	C	G	4	+	7	ST32	4
YS67	T	G	A	G	A	T	G	G	C	G	N *	NA1	11	ST321	
YS68	T	G	A	T	A	T	G	G	C	G	6		untypable	ST426	
YS69	T	A	A	G	A	T	G	G	C	G	5	NA1	12	ST427	
YS70	T	G	A	T	A	T	G	G	C	G	6		untypable	ST428	
YS71	T	G	A	T	A	T	G	G	C	G	6		untypable	ST347	
YS72	T	G	A	T	A	T	G	G	C	G	6		untypable	ST332	

YS73	T	G	A	G	A	T	G	G	C	A	7-3	untypable	ST348	12
YS74	T	G	A	T	A	T	G	G	C	G	6	untypable	ST333	
YS75	T	G	A	T	A	T	G	G	C	G	6	untypable	ST349	
YS76	T	G	A	T	A	T	G	G	C	G	6	24	ST350	
YS77	T	G	A	T	A	T	G	G	C	G	6	29	ST334	
YS78	T	G	A	G	A	T	G	G	C	A	7-3	30	ST351	
YS79	T	G	A	T	A	T	G	G	C	G	6	29	ST334	
YS80	T	G	A	T	A	T	G	G	C	G	6	untypable	ST429	
YS81	T	G	A	T	A	T	G	G	C	G	6	untypable	ST398	13
YS82	T	G	A	T	A	T	G	G	C	G	6	untypable	ST430	13
YS83	T	G	A	T	A	T	G	G	C	G	6	untypable	ST430	13
YS84	T	G	A	T	A	T	G	G	C	G	6	untypable	ST398	13
YS85	T	G	A	T	A	T	G	G	C	G	6	untypable	ST399	8
YS86	T	G	A	G	A	T	G	G	C	A	7-3	untypable	ST400	
YS87	T	G	A	T	A	T	G	G	C	G	6	untypable	ST431	8
YS88	T	G	A	G	A	T	G	G	C	G	N *	5	ST401	
YS89	T	G	A	G	A	T	G	G	C	G	N *	5	ST401	
YS90	T	G	A	T	A	T	G	G	C	G	6	29	ST450	
YS91	T	G	A	T	A	T	G	G	C	G	6	untypable	ST451	15
YS92	T	G	A	T	A	T	G	G	C	G	6	untypable	ST452	15
YS93	T	G	A	T	A	T	G	G	C	G	6	untypable	ST452	15
YS94	T	G	A	T	A	T	G	G	C	G	6	untypable	ST402	
YS95	T	G	A	T	A	T	G	G	C	G	6	untypable	untypable	
YS96	T	G	A	T	A	T	G	G	C	G	6	untypable	ST432	
YS97	T	G	A	T	A	T	G	G	C	G	6	untypable	ST432	
YS98	T	G	A	T	A	T	G	G	C	G	6	untypable	ST432	

YS99	T	G	A	T	A	T	G	G	C	G	6	untypable	ST432
YS100	T	G	A	T	A	T	G	G	C	G	6	untypable	ST432
YS101	T	G	A	T	A	T	G	G	C	G	6	untypable	ST433
YS102	T	G	A	T	A	T	G	G	C	G	6	untypable	ST433
YS103	T	G	A	T	A	T	G	G	C	G	6	untypable	ST403
YS104	T	G	A	T	A	T	G	G	C	G	6	untypable	ST434
YS105	T	G	A	T	A	T	G	G	C	G	6	29	ST435
YS106	T	G	A	T	A	T	G	G	C	G	6	5	ST406
YS107	T	G	A	T	A	T	G	G	C	G	6	untypable	ST436
YS108	T	G	A	T	A	T	G	G	C	G	6	untypable	untypable
YS109	T	G	A	T	A	T	G	G	C	G	6	untypable	ST453
YS110	T	G	A	T	A	T	G	G	C	G	6	untypable	ST453
YS111	T	G	A	T	A	T	G	G	C	G	6	untypable	ST453
YS112	T	G	A	T	A	T	G	G	C	G	6	29	ST454
YS113	T	G	A	T	A	T	G	G	C	G	6	untypable	ST437
YS114	T	G	A	T	A	T	G	G	C	G	6	untypable	ST455
YS115	T	G	A	T	A	T	G	G	C	G	6	untypable	ST456
YS116	T	G	A	T	A	T	G	G	C	G	6	24	ST457
YS117	T	G	A	T	A	T	G	G	C	G	6	untypable	ST404
YS118	T	G	A	T	A	T	G	G	C	G	6	29	ST405
YS119	T	G	A	T	A	T	G	G	C	G	6	5	ST406
YS120	T	G	A	T	A	T	G	G	C	G	6	30	ST458
YS121	T	G	A	T	A	T	G	G	C	G	6	untypable	ST407
YS122	T	G	A	T	A	T	G	G	C	G	6	untypable	ST408
YS123	T	G	A	T	A	T	G	G	C	G	6	untypable	ST453
YS124	T	G	A	T	A	T	G	G	C	G	6	untypable	ST459

YS125	T	G	A	T	A	T	G	G	C	G	6	untypable	ST453	
YS126	T	G	A	T	A	T	G	G	C	G	6	29	ST438	
YS127	T	G	A	T	A	T	G	G	C	G	6	29	untypable	
YS128	T	G	A	T	A	T	G	G	C	G	6	untypable	ST439	
YS129	T	G	A	T	A	T	G	G	C	G	6	untypable	ST439	
YS130	T	G	A	T	A	T	G	G	C	G	6	untypable	ST460	
YS131	T	G	A	T	A	T	G	G	C	G	6	untypable	ST453	
YS132	T	G	A	T	A	T	G	G	C	G	6	untypable	untypable	
YS133	T	G	A	G	A	T	G	G	C	A	7-3	untypable	ST409	12
YS134	T	G	A	T	A	T	G	G	C	G	6	untypable	ST461	7
YS135	T	G	A	G	A	T	G	G	C	A	7-3	untypable	ST440	
YS136	T	G	A	T	A	T	G	G	C	G	6	12	ST457	
YS137	T	G	A	T	A	T	G	G	C	G	6	24	ST410	
YS138	T	G	A	T	A	T	G	G	C	G	6	untypable	ST441	7
YS139	T	G	A	G	A	T	G	G	C	A	7-3	untypable	ST440	
YS140	T	G	A	T	A	T	G	G	C	G	6	untypable	ST442	
YS141	T	G	A	T	A	T	G	G	C	G	6	24	ST410	
YS142	T	G	A	T	A	T	G	G	C	G	6	untypable	ST411	
YS143	T	G	A	G	A	T	G	G	C	A	7-3	untypable	ST440	
YS144	T	G	A	T	A	T	G	G	C	A	6	untypable	ST455	
YS145	T	G	A	T	A	T	G	G	C	G	6	untypable	ST443	
YS146	T	G	A	T	A	T	G	G	C	G	6	untypable	ST444	
YS147	T	G	A	T	A	T	G	G	C	G	6	untypable	ST462	
YS148	T	G	A	G	A	G	G	G	C	G	7-2	untypable	ST463	
YS149	T	G	A	T	A	T	G	G	C	G	6	untypable	ST464	
YS150	T	G	A	T	A	T	G	G	C	G	6	untypable	ST465	

YS151	T	G	A	T	A	T	G	G	C	G	6	untypable	ST466		
YS152	T	G	A	T	A	T	G	G	C	G	6	30	ST414		
YS153	T	G	A	T	A	T	G	G	C	G	6	30	ST445		
YS154	T	G	A	T	A	T	G	G	C	G	6	30	ST412		
YS155	T	G	A	T	A	T	G	G	C	G	6	untypable	ST446		
YS156	T	G	A	T	A	T	G	G	C	G	6	untypable	ST447	11	
YS157	T	G	A	T	A	T	G	G	C	G	6	5	ST413		
YS158	T	G	A	T	A	T	G	G	C	G	6	30	ST445		
YS159	T	G	A	T	A	T	G	G	C	G	6	untypable	ST448		
YS160	T	G	A	T	A	T	G	G	C	G	6	untypable	ST467		
YS161	T	G	A	T	A	T	G	G	C	G	6	22	untypable		
YS162	T	G	A	T	A	T	G	G	C	G	6	untypable	ST468		
YS163	T	G	A	T	A	T	G	G	C	G	6	untypable	untypable		
YS164	T	G	A	T	A	T	G	G	C	G	6	29	ST414		
YS165	T	G	A	T	A	T	G	G	C	G	6	untypable	ST415	11	
YS166	T	G	A	T	A	T	G	G	C	G	6	untypable	ST469		
YS167	T	G	A	T	A	T	G	G	C	G	6	untypable	ST470		
YS168	T	G	A	T	A	T	G	G	C	G	6	untypable	ST470		
YS169	T	G	A	T	A	T	G	G	C	G	6	30	ST471	14	
YS170	T	G	A	T	A	T	G	G	C	G	6	untypable	ST469		
YS171	T	G	A	T	A	T	G	G	C	G	6	untypable	ST472		
YS172	T	G	A	T	A	T	G	G	C	G	6	30	ST473	14	
YS173	T	G	A	T	A	T	G	G	C	G	6	untypable	untypable		
YS174	T	G	A	T	A	T	G	G	C	G	6	5	ST474		
YS175	T	G	A	G	A	T	G	G	C	G	N *	29	ST416		
YS176	T	G	A	G	A	T	G	G	C	G	N *	+	NA1	15	ST449

YS177	T	G	A	T	A	T	G	G	C	G	6				5	untypable		
YS178	T	G	A	T	A	T	G	G	C	G	6				untypable	untypable		
YS179	T	G	A	G	A	T	A	G	C	G	1	+	+	EU	-	2	ST1	1

* N: MCG ungroupable