

Sample	ST	SBT profile <i>flaA-pilE-asd-mip-mompS-pr</i>	Serogroup	ANI_str_Philade	drxA	Hypoth_gr1	
D-1079	*39	*3-5-1-7-14-9-8		2	98.72	Yes	Yes
D-1155	*465	*2-29-2-5-50-20-15		3	96.82	Yes	Yes
D1-169	*1362	*2-10-3-28-9-4-207		14	96.7	Yes	Yes
D-1197	*Novel	*4-15-11-25-11-12-17		9	96.92	Yes	Yes
D-1200	*1422	*1-4-3-19-1-1-215		7	96.94	Yes	Yes
D-1216	*Novel	*6-10-19-28-9-14-9		3	96.72	Yes	Yes
D-1218	*1230	*7-6-17-6-13-11-40		5	96.81	Yes	Yes
D-1226	*Novel	*6-23-15-3-21-14-9		6	96.59	Yes	Yes
D-1271	*93	*3-10-1-28-14-9-13		3	99.52	Yes	Yes
D-139	*1333	*2-10-3-28-9-14-207	: groupable		96.68	Yes	Yes
D-1476	*2197	*3-5-1-7-14-11-8		2	98.77	Yes	Yes
D-154	*Novel	*6-10-15-3-4-14-207	: groupable		96.94	Yes	Yes
D-1659		*3-10-1-x-14-9-13		12	99.46	Yes	Yes
D-2115	87	*2-10-3-28-9-4-13		3	96.57	Yes	Yes
D-2209	*Novel	*3-13-1-30-14-9-203		10	99.42	Yes	Yes
D-2239	*1288	*7-6-17-28-13-11-207		15	96.82	Yes	Yes
D-2243	*1318	*6-10-5-10-9-1-209		13	96.81	Yes	Yes
D-2435	*Novel	*8-3-9-10-51-1-218		10	96.94	Yes	Yes
D-2576	*421	*2-10-3-3-9-4-3		12	96.74	Yes	Yes
D-2906		*6-10-15-28-x-4-3		6	96.71	Yes	Yes
D-2997	1	1-4-3-1-1-1-1		1	96.95	Yes	Yes
D-305	*196	*3-10-1-28-14-9-11		3	99.52	Yes	Yes
D-3074	*1441	*6-10-5-10-33-1-209		13	96.86	Yes	Yes
D-323	*1380	*12-10-26-5-3-17-213		10	96.79	Yes	Yes
D-3247		*3-x-1-28-14-9-207		5	99.46	Yes	Yes
D-3313	*531	*6-10-15-28-9-4-9		9	96.79	Yes	Yes
D-3367	*1354	*2-10-24-28-4-4-207		2	97.04	Yes	Yes
D-3390		*3-x-1-28-14-9-207		8	99.41	Yes	Yes
D-3391	*1409	*6-10-19-28-19-4-207		4	96.65	Yes	Yes
D-3409	*1815	*7-6-17-3-13-11-207		8	96.79	Yes	Yes
D-341	1	1-4-3-1-1-1-1		1	96.99	Yes	Yes
D-3498	*1037	*6-10-14-28-21-4-9		9	96.77	Yes	Yes
D-3509	*1427	*3-12-1-6-14-9-220		5	99.56	Yes	Yes
D-3525	*660	*3-5-1-3-14-11-8		2	98.72	Yes	Yes
D-3736	*Novel	*6-10-19-28-78-4-207		8	96.82	Yes	Yes
D-3762	*Novel	*4-7-11-23-29-12-211		7	96.98	Yes	Yes
D-3822	37	3-4-1-1-14-9-11		1	99.8	Yes	Yes
D-3827	*37	*3-4-1-1-14-9-11		1	99.81	Yes	Yes
D-3851	62	8-10-3-15-18-1-6		1	96.88	Yes	Yes
D-4013	*Novel	*6-23-15-10-9-14-207		8	96.74	Yes	Yes
D-4042	*1629	*12-8-11-18-8-12-201		5	96.89	Yes	Yes
D-4092	*1439	*6-10-15-28-21-7-207		8	96.66	Yes	Yes
D-4165	*354	*3-5-1-7-14-32-8		2	98.68	Yes	Yes
D-4171	771	3-4-1-1-14-9-3		1	99.61	Yes	Yes
D-4191	*Novel	*3-6-1-3-14-9-9		6	99.4	Yes	Yes

D-4234	*17	*2-10-3-28-9-4-6	3	96.69	Yes	Yes
D-4238	*Novel	*3-4-1-18-14-9-201	5	99.59	Yes	Yes
D-4292	*Novel	*4-8-11-23-59-26-211	7	97.02	Yes	Yes
D-4366	*Novel	*12-8-11-25-24-12-17	9	97.04	Yes	Yes
D-4368	*Novel	*6-23-15-28-9-14-207	10		Yes	Yes
D-4455	*1323	*6-10-3-28-9-4-207	10	96.63	Yes	Yes
D-4461	*2462	*26-2-35-10-6-10-203	8	96.9	Yes	Yes
D-4497	*Novel	*1-4-3-25-1-1-206	10	96.91	Yes	Yes
D-4677	*1358	*5-2-22-10-6-25-203	14	97.06	Yes	Yes
D-4690	*202	*3-13-1-28-1-9-3	6	99.67	Yes	Yes
D-4771		*3-5-1-28-x-11-8	2	98.7	Yes	Yes
D-5043		*6-x-15-28-21-14-207	10	96.57	Yes	Yes
D-5044	*378	*3-13-1-17-14-9-7	4	99.67	Yes	Yes
D-5131	35	3-4-1-1-1-9-1	1	99.89	Yes	Yes
D-5178	*Novel	*4-8-11-23-59-26-211	7	96.91	Yes	Yes
D-5183	*Novel	*3-4-1-18-14-9-201	5	99.5	Yes	Yes
D-5285	205	5-10-22-15-6-1-6	1	97.11	Yes	Yes
D-5322		*5-1-22-30-6-x-x	8	97.09	Yes	Yes
D-5346	*1913	*6-10-5-48-33-1-209	13	96.79	Yes	Yes
D-5352	*Novel	*2-29-57-5-2-5-15	3	96.81	Yes	Yes
D-5375	205	5-10-22-15-6-1-6	1	97.13	Yes	Yes
D-5391	*Novel	*3-8-1-7-14-11-8	2	98.7	Yes	Yes
D-5462	*Novel	*7-6-3-3-13-11-207	10	96.72	Yes	Yes
D-5465	1	1-4-3-1-1-1-1	1	97.03	Yes	Yes
D-5512	109	5-1-22-15-6-10-6	1	97.07	Yes	Yes
D-5517		*3-10-1-28-x-x-13	3	99.59	Yes	Yes
D-554	*341	*7-6-17-28-13-11-13	3	96.95	Yes	Yes
D-5602	*Novel	*6-10-17-3-9-14-207	10	96.76	Yes	Yes
D-5677	*Novel	*6-10-5-48-27-1-209	13	96.8	Yes	Yes
D-5698	*1434	*12-15-11-18-11-12-201	5	96.86	Yes	Yes
D-5705	*114	*3-6-1-6-14-11-9	6	99.51	Yes	Yes
D-5746	15	12-9-26-5-26-17-15	1	96.75	Yes	Yes
D-5754	*Novel	*2-3-11-10-2-6-6	3	96.88	Yes	Yes
D-5762		*4-8-11-16-11-12-x	2	96.93	Yes	Yes
D-5864	*68	*3-13-1-28-14-9-3	6	99.64	Yes	Yes
D-5894	*1324	*5-1-22-30-6-10-203	8	97.07	Yes	Yes
D-6005	*1267	*2-6-48-6-48-5-40	5	96.83	Yes	Yes
D-6012	*Novel	*12-8-11-20-11-12-227	7	96.82	Yes	Yes
D-7009	*196	*3-10-1-28-14-9-11	3	99.51	Yes	Yes
D-7081	1	1-4-3-1-1-1-1	1	97.07	Yes	Yes
D-7095		1-4-3-1-1-x-1	1	97.06	Yes	Yes
D-7110	59	7-6-17-3-13-11-11	1	96.82	Yes	Yes
D-7235	222	2-19-5-10-18-1-10	1	96.82	Yes	Yes
D-7257	1742	2-19-5-10-33-1-10	1	96.71	Yes	Yes
D-7258	36	3-4-1-1-14-9-1	1	99.94	Yes	Yes
D-730	*1365	*1-4-3-28-1-1-207	10	96.93	Yes	Yes
D-7322	187	3-10-1-28-14-9-3	6	99.59	Yes	Yes

D-7334	*242	*3-10-1-28-1-9-3	12	99.66	Yes	Yes
D-7351	187	3-10-1-28-14-9-3	6	99.57	Yes	Yes
D-7364	*2010	*4-8-11-16-24-12-2	9	96.86	Yes	Yes
D-7446	8	1-4-3-1-1-1-9	1	96.8	Yes	Yes
D-7473	61	7-6-17-3-24-11-11	1	97.03	Yes	Yes
D-750	*1373	*5-2-3-10-6-25-203	5	97.07	Yes	Yes
D-7546	731	7-10-17-12-29-11-9	1	97.08	Yes	Yes
D-7628	*73	*4-8-11-25-29-12-17	6	97.06	Yes	Yes
D-7660	1326	3-10-1-28-14-9-207	1	99.6	Yes	Yes
D-7694	346	3-4-1-28-14-9-1	1	99.6	Yes	Yes
D-7695	395	7-6-17-20-13-11-3	3	96.73	Yes	Yes
D-7699	30	3-10-1-3-14-9-9	6	99.41	Yes	Yes
D-7700	1319	2-6-17-14-12-8-211	7	96.76	Yes	Yes
D-7701	*Novel	*2-10-3-16-9-4-13	<sup>a</sup> NK	96.62	Yes	Yes
D-7711	2185	8-29-5-5-11-20-15	3	96.89	Yes	Yes
D-7738	*2239	*6-10-20-10-9-14-9	NK	96.77	Yes	Yes
D-7740	*Novel	*8-10-3-15-9-1-20	NK	96.87	Yes	Yes
D-7741	*94	*12-8-11-5-20-12-2	NK	96.93	Yes	Yes
D-7742	*210	*6-10-15-10-9-14-10	NK	96.69	Yes	Yes
D-7743		*8-10-9-15-x-1-6	NK	96.89	Yes	Yes
D-7744	*187	*3-10-1-28-14-9-3	NK	99.53	Yes	Yes
D-7745		*2-19-5-10-x-1-10	NK	96.73	Yes	Yes
D-7746		*2-10-19-12-x-14-9	NK	96.86	Yes	Yes
D-7747		*2-19-5-10-x-1-2	NK	96.81	Yes	Yes
D-7753		*8-10-3-15-x-1-6	NK	96.94	Yes	Yes
D-7765		*1-x-3-1-1-70-1-1	NK	97.08	Yes	Yes
D-7792	222	2-19-5-10-18-1-10	1	96.82	Yes	Yes
D-7798	211	3-10-1-1-14-9-11	1	99.62	Yes	Yes
D-7830	1941	12-8-11-15-20-12-2	1	96.92	Yes	Yes
D-7854	44	4-8-11-10-10-12-2	1	96.86	Yes	Yes
D-7856	213	2-19-5-10-18-1-2	1	96.81	Yes	Yes
D-7859	222	2-19-5-10-18-1-10	1	96.75	Yes	Yes
D-7860	1941	12-8-11-15-20-12-2	1	96.87	Yes	Yes
D-7861	213	2-19-5-10-18-1-2	1	96.81	Yes	Yes
D-7903	2378	7-6-3-28-13-11-9	3	96.76	Yes	Yes
D-7910	2378	7-6-3-28-13-11-9	3	96.74	Yes	Yes
D-935	*656	*2-6-3-28-9-4-9	3	96.66	Yes	Yes
E-104	1	1-4-3-1-1-1-1	1	96.85	Yes	Yes
ERR376639	*5	*1-4-3-1-1-1-14	NK	96.94	Yes	Yes
ERR376670	*72	*1-4-3-1-1-1-16	NK	96.93	Yes	Yes
ERR376674	*10	*1-6-3-1-1-1-1	NK	96.91	Yes	Yes
ERR376755	*6	*1-4-3-1-1-1-15	NK	96.88	Yes	Yes
ERR440073	*733	*3-13-1-15-14-9-6	NK	99.68	Yes	Yes
F-1703	7	1-4-3-1-1-1-6	1	96.87	Yes	Yes
F-4292	995	2-3-9-10-2-6-6	3	96.93	Yes	Yes
F-4466	36	3-4-1-1-14-9-1	1	99.53	Yes	Yes

F-4559	763	6-10-19-28-19-4-11	1	97.16	Yes	Yes
NY10	1	1-4-3-1-1-1-1	1	97.05	Yes	Yes
SRR4018598	390	1-4-3-28-1-1-6	1	96.92	Yes	Yes
SRR4018602	1320	8-1-22-30-6-10-203	8	97.1	Yes	Yes
SRR4018607	583	7-6-17-28-13-11-3	6	96.92	Yes	Yes
SRR4018610	1101	6-6-15-3-9-14-11	1	96.81	Yes	Yes
SRR4018612	486	1-4-3-1-21-1-1	1	96.92	Yes	Yes
SRR4018615	630	1-4-3-1-1-1-10	1	97.01	Yes	Yes
SRR4018622	1021	31-10-20-10-21-4-11	1	96.89	Yes	Yes
SRR4018630	752	22-4-3-1-1-1-1	1	96.86	Yes	Yes
SRR4018636	1119	2-10-14-10-21-4-3	1	96.74	Yes	Yes
SRR4018638	27	3-10-1-10-14-9-6	1	99.45	Yes	Yes

\* indicates that STs and allele numbers were identified *in silico* based on WGS sequence data  
x indicates that the allele number could not be assigned

<sup>a</sup>NK means that the serogroup is unknown







Yes	Yes	Yes	NO	NO	NO	NO	NO	NO
Yes	Yes	Yes	NO	NO	NO	NO	NO	NO
Yes	Yes	Yes	NO	NO	NO	NO	NO	NO
Yes	Yes	Yes	NO	NO	NO	NO	NO	NO
Yes	Yes	Yes	NO	NO	NO	NO	NO	NO
Yes	Yes	Yes	NO	NO	NO	NO	NO	NO
Yes	Yes	Yes	NO	NO	NO	NO	NO	NO
Yes	Yes	Yes	NO	NO	NO	NO	NO	NO
Yes	Yes	Yes	NO	NO	NO	NO	NO	NO
Yes	Yes	Yes	NO	NO	NO	NO	NO	NO
Yes	Yes	Yes	NO	NO	NO	NO	NO	NO
Yes	Yes	Yes	NO	NO	NO	NO	NO	NO

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