

1 **Supplemental Material, Table S1:** Characteristics of the 10 previously assigned ST strains.

Strain number	Genogroup*	ST	Allelic profile							Animal species	Specimen origin	Geographic origin	Year of isolation
			<i>atpD</i>	<i>gapA</i>	<i>guaA</i>	<i>mutM</i>	<i>nuoD</i>	<i>ppsA</i>	<i>recA</i>				
13	4	39	21	26	33	9	29	2	15	horse	respiratory	Paris	2013
15	2	126	6	18	99	18	76	89	20	horse	respiratory	Yveline	2013
24	6	8	3	4	18	3	7	20	1	cat	respiratory	Val-de-Marne	2013
31	4	39	21	26	33	9	29	2	15	horse	respiratory	Haute-Vienne	2013
32	6	27	3	1	1	3	6	4	1	horse	respiratory	Isère	2013
38	6	162	1	1	4	3	6	4	1	horse	respiratory	Calvados	2013
41	6	162	1	1	4	3	6	4	1	horse	respiratory	Gironde	2013

43	6	5	5	22	9	4	27	5	7	horse	respiratory	Calvados	2013
53	6	131	5	83	104	51	79	80	73	horse	respiratory	Haute-Vienne	2014
60	6	5	22	9	4	27	5	7	5	dog	respiratory	Calvados	2014

2

3 *: according to Kaiser et al. [7]

4

5 **Supplemental Material, Table S2:** The 43 new STs identified according to allele assignment or to closest alleles if new
6 mutations were identified.

7

Strain number	Genogroup*	Closest allele (number of mutation if any)							Animal species	Specimen origin	Location (department)	Year of isolation
		<i>atpD</i>	<i>gapA</i>	<i>guaA</i>	<i>mutM</i>	<i>nuoD</i>	<i>ppsA</i>	<i>recA</i>				
62	5	40	0	103	1	97	11	38	horse	respiratory	Haute-Garonne	2014
61	5	40	0	36	0	180	8	37	horse	respiratory	Bouches-du-Rhône	2014
59	5	40	0	36	0	140	6	37	horse	respiratory	Orne	2014
58	2	16	0	80	2	188	8	87	horse	respiratory	Orne	2014
57	2	16	0	80	2	188	8	87	horse	respiratory	Orne	2014
55	2	16	0	80	2	188	8	87	horse	respiratory	Orne	2014

54	9	56	3	55	2	97	5	32	horse	respiratory	Loire- Atlantique	2014
52	2	96	2	72	1	18	8	87	horse	respiratory	Haute-Vienne	2014
51	3	13	0	69	0	4	9	107	horse	respiratory	Paris	2014
49	UC ^s	55	5	54	9	65	14	97	horse	respiratory	Loire- Atlantique	2014
48	UC	40	12	47	23	56	21	11	horse	respiratory	Yonne	2014
47	2	80	1	88	0	97	5	72	dog	urines	Isère	2013
46	9	56	0	42	4	166	11	32	horse	respiratory	Corse	2013
45	5	40	0	36	0	180	8	37	horse	respiratory	Loir-et-Cher	2013
44	2	77	3	114	2	14	6	87	reptile	respiratory	Tarn-et- Garonne	2013

40	UC	89	1	15	18	15	2	3	horse	respiratory	Haute-Garonne	2013
39	5	40	0	36	3	14	12	3	horse	respiratory	Seine-Maritime	2013
37	2	105	2	19	7	166	8	18	horse	respiratory	Landes	2013
36	2	96	2	72	1	18	8	87	horse	respiratory	Morbihan	2013
35	2	96	3	80	2	15	4	20	horse	respiratory	Sarthe	2013
34	UC	89	1	15	18	101	9	67	horse	respiratory	Haute-Garonne	2013
30	2	96	2	72	1	18	8	3	horse	respiratory	Sarthe	2013
29	UC	89	1	15	18	101	9	67	horse	respiratory	Cantal	2013
28	3	103	1	36	16	185	6	70	horse	respiratory	Eure-et-Loire	2013
27	UC	28	0	8	0	102	9	33	horse	respiratory	Corse	2013
25	UC	89	0	15	18	101	9	67	horse	respiratory	Tarn et	2013

											Garonne	
23	2	96	2	72	1	18	8	87	horse	respiratory	Maine-et-Loire	2013
22	9	56	2	55	0	166	8	4	horse	respiratory	Seine-et-Marne	2013
21	2	80	0	88	0	112	0	72	horse	respiratory	Vienne	2013
20	9	56	3	55	2	166	11	32	horse	suppuration (abscess)	Ile-et-Vilaine	2013
19	UC	76	1	8	1	160	6	67	horse	respiratory	Calvados	2013
18	5	40	0	36	0	140	6	37	horse	respiratory	Manche	2013
17	UC	85	5	58	15	91	8	87	horse	respiratory	Charente-Maritime	2013
16	5	40	0	36	0	15	4	37	horse	respiratory	Manche	2013

14	5	40	0	36	1	140	6	37	horse	respiratory	Haute-Savoie	2013
12	D	26	0	14	0	58	8	28	horse	respiratory	Bas-Rhin	2013
10	2	80	1	114	3	57	5	87	horse	respiratory	Sarthe	2013
9	UC	53	0	6	1	62	16	10	horse	respiratory	Seine-et- Marne	2013
8	9	56	2	55	3	105	8	32	horse	respiratory	Puy-de-Dôme	2013
5	5	40	1	36	3	10	11	42	horse	respiratory	Calvados	2013
4	4	2	0	26	0	33	0	9	horse	respiratory	Seine-et- Marne	2013
2	UC	26	0	14	0	58	8	4	horse	respiratory	Bas-Rhin	2013
1	5	40	0	36	0	140	6	37	horse	respiratory	Manche	2013

8

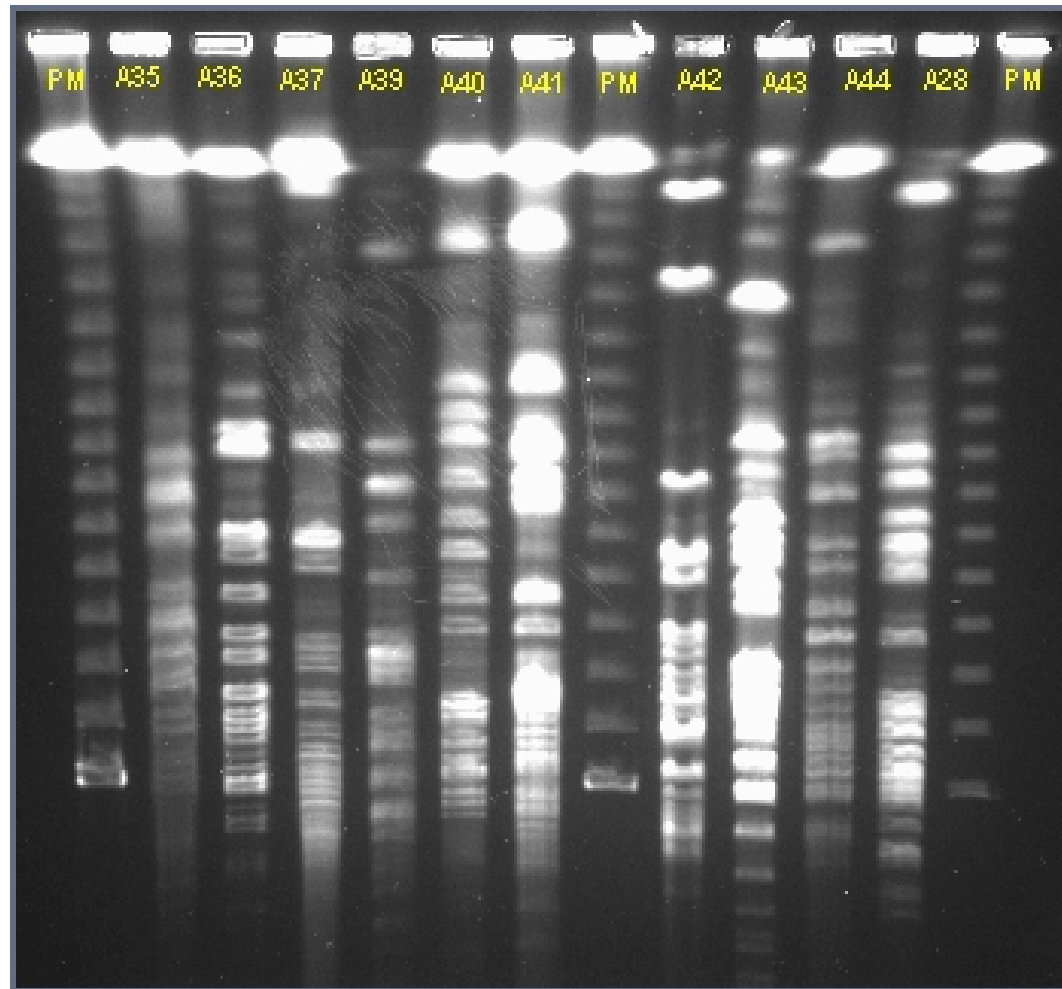
9 *: according to Kaiser et al. [7]

10 \$: uncategorized

11

12

13 **Supplemental Material, Figure S1:** Example of pulsed field gel electrophoresis patterns of animal strains



14

15 PM: molecular weight marker