

Table S1. Characteristics of *Pseudomonas aeruginosa* strains considered in the study. Species and sampling locations, gene sets and ERIC-PCR profiles.

Number of sample ERIC-PCR	Sample	Genes	ERIC-PCR Profile
18	Cat - nasal cavity	<i>toxA, exoS, lasB, aprA, gacA, algD, pelA, endA, oprF</i>	14
27	Cat - nasal cavity	<i>toxA, exoT, exoS, lasB, plcN, plcH, aprA, gacA, algD, pelA, endA, oprF</i>	82
33	Cat - nasal cavity	<i>exoU, exoT, exoS, lasB, plcN, plcH, aprA, algD, pelA, endA, oprF</i>	20
34	Cat - nasal cavity	<i>exoU, exoT, lasB, plcH, gacA, algD, pelA, endA, oprF</i>	22
37	Cat - nasal cavity	<i>toxA, exoT, exoS, lasB, plcN, plcH, aprA, gacA, pelA, endA, oprF</i>	23
39	Cat - nasal cavity	<i>toxA, exoT, exoS, lasB, plcH, aprA, gacA, algD, pelA, endA, oprF</i>	26
42	Cat - nasal cavity	<i>exoU, exoT, lasB, plcH, gacA, algD, pelA, endA, oprF</i>	27
45	Cat - nasal cavity	<i>exoU, exoT, lasB, plcH, aprA, gacA, algD, pelA, endA, oprF</i>	29
46	Cat - nasal cavity	<i>exoU, lasB, plcH, aprA, gacA, algD, pelA, endA, oprF</i>	31
52	Cat - nasal cavity	<i>exoU, exoT, lasB, plcH, aprA, gacA, algD, pelA, endA, oprF</i>	32
62	Cat - nasal cavity	<i>toxA, exoT, exoS, lasB, plcN, plcH, pldA, aprA, gacA, algD, pelA, endA, oprF</i>	32
69	Cat - nasal cavity	<i>toxA, exoT, lasB, plcN, plcH, aprA, gacA, algD, pelA, endA, oprF</i>	48
77	Cat - nasal cavity	<i>toxA, exoT, exoS, lasB, plcN, plcH, pldA, aprA, gacA, algD, pelA, endA, oprF</i>	51
85	Cat - nasal cavity	<i>toxA, exoU, exoT, lasB, plcH, aprA, gacA, algD, pelA, endA, oprF</i>	48
97	Cat - nasal cavity	<i>toxA, exoU, exoT, lasB, plcN, plcH, gacA, pelA, endA</i>	58
101	Cat - external auditory canal	<i>exoT, exoS, lasB, plcN, plcH, aprA, gacA, algD, pelA, oprF</i>	80
100	Dog – trachea and bronchi	<i>toxA, exoU, exoT, plcN, plcH, aprA, gacA, algD, pelA, endA, oprF</i>	2

28	Dog – trachea and bronchi	<i>toxA, exoU, exoT, lasB, plcH, aprA, gacA, algD, pelA, endA, oprF</i>	4
86	Dog – trachea and bronchi	<i>toxA, exoT, lasB, plcN, plcH, aprA, gacA, algD, pelA, endA, oprF</i>	8
78	Dog – larynx	<i>exoT, exoS, lasB, plcN, plcH, aprA, gacA, algD, pelA, endA, oprF</i>	9
10	Dog – nasal cavity	<i>toxA, exoT, lasB, plcH, pldA, aprA, gacA, pelA, endA, oprF</i>	10
35	Dog – nasal cavity	<i>toxA, exoS, lasB, plcN, plcH, aprA, gacA, algD, pelA, endA, oprF</i>	11
36	Dog – nasal cavity	<i>toxA, exoT, exoS, lasB, plcN, plcH, aprA, gacA, algD, pelA, endA, oprF</i>	13
41	Dog – nasal cavity	<i>exoT, lasB, plcH, aprA, gacA, algD, pelA, endA, oprF</i>	15
66	Dog – nasal cavity	<i>exoT, exoS, lasB, plcN, plcH, aprA, gacA, algD, pelA, endA</i>	16
73	Dog – nasal cavity	<i>exoT, lasB, plcN, aprA, gacA, algD, pelA, endA, oprF</i>	17
67	Dog – perianal sinus glands	<i>exoU, exoT, exoS, lasB, plcN, plcH, pldA, aprA, gacA, algD, pelA, endA, oprF</i>	32
70	Dog – perianal sinus glands	<i>lasB, plcN, plcH, aprA, gacA, algD, pelA, endA, oprF</i>	74
57	Dog – urine	<i>exoU, exoT, exoS, lasB, plcH, aprA, gacA, algD, pelA, endA, oprF</i>	24
81	Dog – urine	<i>exoU, exoT, exoS, lasB, plcN, plcH, pldA, aprA, gacA, algD, pelA, endA, oprF</i>	25
83	Dog – urine	<i>toxA, exoU, exoT, lasB, plcN, plcH, aprA, gacA, algD, pelA, endA, oprF</i>	28
54	Dog – conjunctival sac	<i>exoS, lasB, plcH, aprA, gacA, pelA, endA, oprF</i>	30

58	Dog – conjunctival sac	<i>toxA, exoU, exoT, exoS, lasB, plcH, aprA, gacA, algD, pelA, endA, oprF</i>	75
79	Dog – conjunctival sac	<i>toxA, exoT, exoS, lasB, plcN, plcH, aprA, gacA, algD, pelA, endA, oprF</i>	33
80	Dog – conjunctival sac	<i>toxA, exoT, exoS, lasB, plcH, aprA, gacA, algD, pelA, endA, oprF</i>	34
82	Dog – conjunctival sac	<i>exoT, exoS, lasB, plcN, plcH, aprA, gacA, algD, pelA, endA, oprF</i>	35
95	Dog – conjunctival sac	<i>toxA, exoT, lasB, plcH, pldA, aprA, gacA, algD, pelA, endA, oprF</i>	19
103	Dog – conjunctival sac	<i>exoU, exoT, lasB, plcN, plcH, pldA, aprA, gacA, pelA, endA</i>	41
105	Dog – conjunctival sac	<i>exoT, exoS, lasB, plcN, plcH, pldA, aprA, gacA, pelA, endA</i>	43
107	Dog – conjunctival sac	<i>toxA, exoU, exoT, lasB, plcN, plcH, pldA, gacA, pelA, endA</i>	44
94	Dog – conjunctival sac	<i>toxA, exoU, exoT, lasB, plcN, plcH, aprA, gacA, algD, pelA, endA, oprF</i>	45
17	Dog- vagina	<i>toxA, exoT, exoS, lasB, plcN, plcH, pldA, aprA, gacA, algD, pelA, endA, oprF</i>	46
50	Dog- vagina	<i>exoT, exoS, lasB, plcH, pldA, gacA, algD, pelA, endA, oprF</i>	49
68	Dog- vagina	<i>exoT, exoS, lasB, plcN, plcH, aprA, gacA, algD, pelA, endA, oprF</i>	5
76	Dog- vagina	<i>toxA, exoT, lasB, plcH, aprA, algD, pelA, endA, oprF</i>	76
88	Dog- vagina	<i>toxA, exoU, exoT, exoS, lasB, plcH, aprA, gacA, algD, pelA, endA, oprF</i>	48
89	Dog- vagina	<i>toxA, exoT, lasB, plcH, aprA, algD, pelA, endA, oprF</i>	50
90	Dog- vagina	<i>exoU, exoT, lasB, plcH, pldA, aprA, gacA, algD, pelA, endA, oprF</i>	77
110	Dog- vagina	<i>exoT, exoS, plcN, plcH, pldA, gacA, algD, pelA, endA, oprF</i>	51

9	Dog- vagina	<i>toxA, exoT, exoS, lasB, plcH, aprA, gacA, algD, pelA, endA, oprF</i>	51
109	Dog - skin	<i>toxA, exoT, lasB, plcN, plcH, gacA, pelA, endA</i>	48
106	Dog - skin	<i>plcN, algD, pelA</i>	53
7	Dog - skin	<i>exoU, exoT, lasB, plcN, plcH, gacA, pelA, endA</i>	54
20	Dog - skin	<i>exoT, exoS, lasB, aprA, gacA, algD, pelA, endA, oprF</i>	55
43	Dog - skin	<i>exoU, exoS, lasB, plcH, aprA, gacA, algD, pelA, endA</i>	56
61	Dog - skin	<i>exoU, exoT, lasB, plcH, aprA, gacA, algD, pelA, endA, oprF</i>	38
64	Dog - skin	<i>exoT, exoS, lasB, plcH, pldA, aprA, algD, pelA, endA, oprF</i>	55
65	Dog - skin	<i>lasB, plcN, aprA, pelA, endA</i>	37
71	Dog - skin	<i>toxA, exoT, exoS, lasB, plcH, aprA, gacA, algD, pelA, endA, oprF</i>	78
84	Dog - skin	<i>toxA, exoU, exoT, lasB, plcH, aprA, gacA, algD, pelA, endA, oprF</i>	59
99	Dog - skin	<i>lasB, plcN, plcH, aprA, gacA, pelA, oprF</i>	60
102	Dog - skin	<i>exoU, exoT, lasB, plcN, plcH, pldA, gacA, pelA, endA</i>	87
111	Dog - skin	<i>toxA, exoT, exoS, plcN, plcH, gacA, algD, pelA, endA</i>	61
44	Dog - skin	<i>toxA, lasB, plcH, aprA, gacA, algD, pelA, endA, oprF</i>	57
32	Dog - skin	<i>toxA, exoT, lasB, plcH, pldA, aprA, gacA, pelA, endA, oprF</i>	63
2	Dog – external auditory canal	<i>exoT, lasB, plcH, aprA, gacA, algD, pelA, endA, oprF</i>	79
13	Dog – external auditory canal	<i>toxA, exoU, exoT, exoS, lasB, plcH, aprA, algD, pelA, endA</i>	47
14	Dog – external auditory canal	<i>exoT, lasB, pelA, endA</i>	64
15	Dog – external auditory canal	<i>exoT, lasB, plcH, aprA, algD, pelA, endA, oprF</i>	66
22	Dog – external auditory canal	<i>lasB, plcH, pldA, aprA, gacA, algD, pelA, endA, oprF</i>	81

24	Dog – external auditory canal	<i>toxA, exoT, exoS, lasB, aprA, gacA, algD, pelA, endA</i>	67
29	Dog – external auditory canal	<i>toxA, exoT, exoS, lasB, plcN, aprA, algD, pelA, endA</i>	68
47	Dog – external auditory canal	<i>exoS, lasB, plcH, pldA, aprA, gacA, algD, pelA, endA, oprF</i>	83
48	Dog – external auditory canal	<i>exoS, lasB, plcH, aprA, gacA, algD, pelA, oprF</i>	84
55	Dog – external auditory canal	<i>exoT, exoS, lasB, plcH, aprA, algD, pelA, endA, oprF</i>	70
60	Dog – external auditory canal	<i>exoU, exoS, lasB, plcH, aprA, algD, pelA, endA, oprF</i>	56
63	Dog – external auditory canal	<i>toxA, exoU, exoT, lasB, plcN, plcH, aprA, gacA, algD, pelA, endA</i>	71
87	Dog – external auditory canal	<i>exoU, exoT, lasB, pldA, aprA, gacA, algD, pelA, endA, oprF</i>	85
92	Dog – external auditory canal	<i>exoU, exoT, lasB, plcH, aprA, gacA, algD, pelA, endA, oprF</i>	86
93	Dog – external auditory canal	<i>toxA, exoT, lasB, plcH, aprA, gacA, algD, pelA, endA, oprF</i>	7
108	Dog – external auditory canal	<i>plcN, algD, pelA, endA</i>	21
1	Fowl – goiter/cloaca	<i>exoU, exoT, exoS, lasB, plcN, pldA, gacA, algD, pelA, endA, oprF</i>	1
5	Fowl – goiter/cloaca	<i>exoU, exoT, exoS, lasB, plcN, plcH, aprA, gacA, algD, pelA, endA</i>	39
16	Fowl – goiter/cloaca	<i>exoT, exoS, lasB, plcH, aprA, gacA, algD, pelA, endA, oprF</i>	12

31	Fowl – goiter/cloaca	<i>exoT, lasB, aprA, algD, pelA, endA, oprF</i>	21
38	Fowl – goiter/cloaca	<i>toxA, exoT, lasB, plcN, aprA, gacA, algD, pelA, endA, oprF</i>	74
51	Fowl – goiter/cloaca	<i>exoT, exoS, lasB, plcH, aprA, gacA, algD, pelA, endA, oprF</i>	36
53	Fowl – goiter/cloaca	<i>exoT, lasB, plcH, aprA, gacA, algD, pelA, endA, oprF</i>	40
56	Fowl – goiter/cloaca	<i>exoU, lasB, plcN, plcH, aprA, gacA, algD, pelA, endA, oprF</i>	42
96	Fowl – goiter/cloaca	<i>toxA, exoT, exoS, lasB, plcN, plcH, pldA, aprA, gacA, algD, pelA, endA, oprF</i>	65
104	Fowl – goiter/cloaca	<i>toxA, exoT, exoS, lasB, plcN, plcH, gacA, pelA, endA</i>	69
3	Ruminant - milk	<i>exoU, exoT, lasB, plcN, aprA, gacA, algD, pelA, endA, oprF</i>	3
6	Ruminant - milk	<i>toxA, lasB, plcH, aprA, gacA, algD, pelA, endA, oprF</i>	4
8	Ruminant - milk	<i>exoU, exoT, exoS, lasB, plcN, plcH, pldA, aprA, gacA, algD, pelA, endA, oprF</i>	6
25	Ruminant - milk	<i>exoT, lasB, plcH, pldA, aprA, gacA, algD, pelA, endA</i>	73
26	Ruminant - milk	<i>toxA, exoT, lasB, plcH, aprA, gacA, algD, pelA, endA, oprF</i>	18
72	Ruminant - milk	<i>exoT, exoS, lasB, plcH, gacA, algD, pelA, endA, oprF</i>	52
98	Ruminant - milk	<i>toxA, exoS, lasB, plcN, plcH, pldA, aprA, gacA, algD, pelA, endA, oprF</i>	66