

**Table S1.** Oligonucleotide primers used for PCR amplification.

Assay		Primer	Sequence (5'-3')	Target gene - Amplicon size (bp)	PCR Conditions
<b><i>Helicobacter</i> genus-specific PCR assay</b>		Hcom1	GTA AAG GCT CAC CAA GGC TAT	16S rRNA - 390	5' 94°C 40x (1' 94°C-1' 63°C-1' 72°C) 5' 72°C
		Hcom2	CCA CCT ACC TCT CCC ACA CTC		
<b><i>Helicobacter</i> species-specific PCR assays</b>	<i>H. suis</i>	BFHsuis_F1	AAA ACA MAG GCG ATC GCC CTG TA (M = A/C)	UreAB - 150	3' 95°C 40x (1' 94°C-1' 59°C-1' 72°C) 5' 72°C
		BFHsuis_R1	TTT CTT CGC CAG GTT CAA AGC G		
	<i>H. bizzozeronii</i>	BFHbizz_F1	CGC TTT GAA CCC GGT GAG AAA A	UreAB - 172	4' 95°C 45x (1' 94°C-1' 58°C-1' 72°C) 10' 72°C
		BFHbizz_R1	TAT CGC AAC CGC AAT TCA CAA CA		
	<i>H. felis</i>	BFHfel_F2	GCT GGT GGC ATC GAT ACG CAT	UreAB - 154	4' 95°C 45x (30" 94°C-30" 60°C-1' 72°C) 10' 72°C
		BFHfel_R2	TTT TTA GAT TAG CGC GTC CGG GA		
	<i>H. salomonis</i>	Hsal_FQ_PAR	CTC TTA TGA GTT GGA CTT GGT GCT CAC CAA T	UreAB - 91	4' 95°C 45x (30" 94°C-30" 61°C-1' 72°C) 10' 72°C
		Hsal_RQ_PAR	TTT GCC ATC TTT AAT TCC AAT GTC GGC		
	<i>H. heilmannii</i>	Hh-IceA-FWQ	GTT TCC AAC CAA AAG ACT CA	IceA - 135	5' 94°C 45x (30" 94°C-30" 55°C-30" 72°C) 10' 72°C
		Hh-IceA-RVQ	ATT GCC TAG AGG TTG TGT TG		
	<i>H. ailurogastricus</i>	Ha-LpsA-FWQ	CTT GAG TAC GGC GAT GTC AAT	LpsA - 136	5' 94°C 45x (30" 94°C-30" 55°C-30" 72°C) 10' 72°C
		Ha-LpsA-RVQ	GGG GAA AAA TGT GCT TGA AGT		
	<i>H. pylori</i>	BFHpyl_F1	AAA GAG CGT GGT TTT CAT GGC G	UreAB - 217	4' 95°C 45x (30" 94°C-30" 59°C-1' 72°C) 10' 72°C
		BFHpyl_R1	GGG TTT TAC CGC CAC CGA ATT TAA		