

Table S1: PCR target genes and primers were used in this study.

Target gene	Reaction	Oligonucleotide sequences (5'-3')	Amplified fragment, bp	Reference
<b><i>Anaplasma</i> spp.</b>				
<i>msp2</i>	Real time PCR	Anaplasma_F GGACAACATGCTTGTAGCTATGGAAGG Anaplasma_R CCTTGGTCTTGAAGCGCTCGTA Anaplasma_Zr TCTCAAGCTCAACCCTGGCACCACCA VIC/BHQ1	98	Ražanskė et al., 2019
<i>msp4</i>	Nested PCR	MAP4AP5 ATGAATTACAGAGAATTGCTTGTAGG MSP4AP3 TTAATTGAAAGCAAATCTTGCTCCTATG	849	de la Fuente et al., 2005
		msp4f CTATTGGYGGNGCYAGAGT msp4r GTTCATCGAAAATTCCGTGGTA	380	Bown et al., 2007
<i>16S rRNA</i>	Nested PCR	ge3a CACATGCAAGTCGAACGGATTATTC ge10r TTCCGTTAAGAAGGATCTAATCTCC	932	Massung et al., 1998
		ge9f AACGGATTATTCTTTATAGCTTGCT ge9r GGCAGTATTTAAAGCAGCTCCAGG	546	
<i>groESL</i>	Nested PCR	HS1a AITGGGCTGGTAITGAAAT HS6a CCICCIIGGIACIAIACCTTC	1300–1450	Sumner et al. 1997; Liz et al. 2002
		HS43 ATWGCWAARGAAGCATAGTC HSVR CTCAACAGCAGCTCTAGTAGC	~ 1300	
<b><i>Babesia</i> spp.</b>				
<i>18S rRNA</i>	Real time PCR	Babesia_F3a GACTCCTTCAGCACCTTGAGA Babesia_F3b GACCCCTTCAGGAGCTTGAGA Babesia_R3 CATGCACCACCACCAWAGAATCA Babesia_Z TGACGGAAGGGCACCACCAGGCGT ROX/BHQ2	214	Ražanskė et al., 2019
<i>18S rRNA</i>	Nested PCR	BS1 GACGGTAGGGTATTGGCCT BS2 ATTCACCGGATCACTCGATC	1340	Rar et al., 2011
		PiroA AATACCCAATCCTGACACAGGG PiroC CCAACAAAATAGAACCAAAGTCCTAC	340-390	
<b><i>Bartonella</i> spp.</b>				
<i>ssrA</i>	Real time PCR	ssrA-R1 AAGGCTTCTGTTGCCAGGYG ssrA-F1 AGTTGCAAATGACAACTATGCGG ssrA-P1 ACCCCGCTTAAACCTGCGACGGTT	124	Mardosaitė-Busaitienė et al., 2019
<i>16S-23S rRNA ITS region</i>	Nested PCR	WITS-F ACCTCCTTTCTAAGGATGAT WITS-R CTCTTTCTTCAGATGATGATCC	~ 1200	Kaewmongkol et al., 2011
		Bh311–332F CTCTTTCTTCAGATGATGATCC ITS-R GCGGTAAAGCTTCCAATCATA	~ 800-1000	
<i>gltA</i>	Nested PCR	gltA-F2 GCTTCGTGTGAATCGAAAATCA gltA-R2 GCGGTAAAGCTTCCAATCATA	379	Norman et al., 1995; Kaewmongkol et al., 2011
		BhCS.1137n AATGCAAAAAGAACAGTAAACA		

		BhCS.781p GGGGACCAGCTCATGGTGG		
<i>groEL</i>	Conventional PCR	BTNgroEL1 GAAGATGTGGAAGGTGAA BTNgroEL2 TCACGGTCATAGTCAGAAG	336	Kim et al., 2005
<i>rpoB</i>	Conventional PCR	RpoB-F CGCATTGGYTTTCTTCGTATG RpoB-R GTRGAYTGATTRGAACGYTG	863	Kaewmongkol, 2012
<b><i>Borrelia</i> spp.</b>				
<i>23S rRNA</i>	Real time PCR	Borrelia_Fp GCTTCAGCCTGGCCATAAATAG Borrelia_R AGCGAGTCTTAAAAGGGCGATTTAGT Borrelia_Z TCACTCGGSTTCGGGTCTACCACATCT FAM/BHQ1	77	Sakalauskas et al., 2020
<i>ospA</i>	Conventional PCR	SL-F AATAGGTCTAATAATAGCCTTAATAGC SL-R CTAGTGTTTTGCCATCTTCTTTGAAAA	307	Demaerschalcck et al., 1995
16S-23S <i>rrs-rrlA</i> intergenic spacer	Nested PCR	IGS-1F GTATGTTTAGTGAGGGGGGTG IGS-1R GGATCATAGCTCAGGTGGTTAG IGS-2F AGGGGGGTGAAGTCGTAACAAG IGS-2R GTCTGATAAACCTGAGGTCGGA	400-1000	Bunikis et al., 2004
<i>fla</i>	Nested PCR	132f TGGTATGGGAGTTTCTGG 905r TCTGTCATTGTAGCATCTTT	774	Wodecka et al., 2009
		220f CAGACAACAGAGGGGAAAT 824r TCAAGTCTATTTTGGAAGCACC	605	
<b><i>Rickettsia</i> spp.</b>				
<i>gltA</i>	Real time PCR	Rick F1 TGCMGAYCATGAGCACAATGCTTC Rick R1 CCCAAAGTGAKGCAATACCCGT Rick P1 TGCCGGCTCATCYGGAGCTAACCC FAM/BHQ1	103	Sakalauskas et al., 2020
<i>gltA</i>	Nested PCR	RpCS.877p GGGGACCTGCTCACGGCGG RpCS.1258n ATTGCAAAAAGTACAGTGAACC	381	Mit'ková et al., 2015
		RpCS.896p GGCTAATGAAGCAGTGATAA RpCS.1233n GCGACGGTATACCCATAGC	338	
<b><i>Mycoplasma</i> spp.</b>				
<i>16SrRNA</i>	Conventional PCR	322s GCCCATATTCTACGGGAAGCAGCAGT 938as CTCCACCACTTGTTTCAGGTCCC CGTC	600	Varanat et al., 2011

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