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| Table-S1: Primer information and reaction conditions of pathogens (annealing temperature) | | | | |  |  |  |
| **Assay** | **Assay target** | **Assay type** | **Primer** | **Sequence (5'-3')** | **Size (bp)** | **Annealing temperature (℃)** | **Reference** |
| Species identification | mt-cyt b | PCR | L7 | ACCAATGACATGAAAAATCATCGTT | 25 | 55 | (19) |
| H15915 | TCTCCATTTCTGGTTTACAAGAC | 23 |
| Hantavirus | Large segment | nested PCR | LF-1 | ATGTAYGTBAGTGCWGATGC | 20 | 54 | (20) |
| LR-1 | AACCADTCWGTYCCRTCATC | 20 |
| LF-2 | TGCWGATGCHACIAARTGGTC | 21 | 55 |
| LR-2 | GCRTCRTCWGARTGRTGDGCAA | 22 |
| Anaplasmataceae | 16S rRNA | nested PCR | Out1 | TTGAGAGTTTGATCCTGGCTCAGAACG | 28 | 54 | (21) |
| Out2 | CACCTCTACACTAGGAATTCCGCTATC | 27 |
| gs1 | GTAATAACTGTATAATCCCTG | 21 | 54 |
| gs2 | GTACCGTCATTATCTTCCCTA | 21 |
| *Borrelia* spp. | 16S rRNA | nested PCR | RRS189F | TGATGAAAGGAAGCCTTTAAAGCTTCGCTTG | 31 | 54 | (22) |
| RRS828R | CACCAAGTGTGCATCGTTTACAGCG | 25 |
| RRS766R | GCTTTCGTGACTCAGCGTCAGTCTT | 25 | 54 |
| RRS442F | GAGGAATAAGCTTTGTAGGAAATGAC | 26 |
| *Bartonella* spp. | ITS | nested PCR | 302p | CCTTCGTTTCTCTTTCTTCA | 20 | 55 | (22) |
| 473n | AACCAACTGAGCTACAAGCC | 20 |
| 311p | CTCTTTCTTCAGATGATGATCC | 22 | 55 |
| 448n | GGATAAACCGGAAAACCTTC | 20 |
| *Coxiella burnetii* | 16S rRNA | nested PCR | Cox16SF1 | CGTAGGAATCTACCTTRTAGWGG | 23 | 55 | (23) |
| Cox16SR1 | ACTYYCCAACAGCTAGTTCTCA | 22 |
| Cox16SF1 | CGTAGGAATCTACCTTRTAGWGG | 23 | 55 |
| Cox16SR2 | GCCTACCCGCTTCTGGTACAATT | 23 |
| *Leptospira* spp. | 16S rRNA | nested PCR | Lep-F1 | GGCGGCGCGTCTTAAACATG | 20 | 54 | (24) |
| Lep-R1 | GTACAAGGTCCGGGAACGTA | 20 |
| Lep-F2 | CAAGTCAAGCGGAGTAGCAA | 20 | 50 |
| Lep-R2 | GCGAGTTGGCTACCCTTTGT | 20 |
| SFRG | OmpA | nested PCR | 190.70p | ATGGCGAATATTTCTCCAAAA | 21 | 51 | (25) |
| 190.602n | AGTGCAGCATTCGCTCCCCCT | 21 |
| 38s1 | AAAACCGCTTTATTCACC | 18 | 51 | (26) |
| 384r1 | GGCAACAAGTTACCTCCT | 18 |
| *Babesia* spp. | 18S rRNA | nested PCR | Bab1 | CTTAGTATAAGCTTTTATACAGC | 23 | 54 | (27) |
| Bab4 | ATAGGTCAGAAACTTGAATGATACA | 25 |
| Bab2 | GTTATAGTTTATTTGATGTTCGTTT | 25 | 54 |
| Bab3 | AAGCCATGCGATTCGCTAAT | 20 |