**Supplementary Table 1. Primers and probes sequences of qPCR assays utilized in this study.**

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| --- | --- | --- | --- | --- |
| **Microorganism** | **Target locus** | **Abbreviation** | **Primer sequences 5´ to 3´ (forward; reverse)** | **Probe sequence** |
| *Bacillus anthracis*  | BA5357 | BA5357 | TCCAAGTTACAGTGTCGGCATATT;CGGTGTAGGATTAAGTTTGGGCT | FAM – AGTTCATCATAAGCCAAGTCTGGGTAGTCAC – BHQ |
| pagA | BA pag | GAATTTGCGGTAACACTTCACTCC;CGGATCAAGTATATGGGAATATAGCAAC | HEX – TCGAGCCTGTATCCACCCTCACTCTTCC – BHQ |
| *Brucella* spp. | BCSP31 | BCSP31 | TCGAGCTTGATGAGCTTG;GACGACCTCATCTATAACATC | FAM – CTTGCGTGTATCCTCGTTCCA – BHQ |
| omp2 | B omp | ATTCCGATTCATCGATACCA;TCGGGCGTAGATGGTAAATA | HEX – CGCAGACCACCGAGCTGGAT – BHQ |
| *Campylobacter coli* | glyA | Camp col | CATATTGTAAAACCAAAGCTTATCGTG;AGTCCAGCAATGTGTGCAATG | HEX – TAAGCTCCAACTTCATCCGCAATCTCTCTAAATTT – BHQ |
| *Campylobacter jejuni* | hipO | Camp jej | TGCACCAGTGACTATGAATAACGA;TCCAAAATCCTCACTTGCCATT | FAM – TTGCAACCTCACTAGCAAAATCCACAGCT – BHQ |
| *Campylobacter lari* | bipA | Camp lar | CATTTCAGCTTTTCTTTTGCCTAGT;AAAACCGAACCATTTGAACACTTAG | FAM – ACCACACCAGTAAAATCATCAGGCACATCA – BHQ |
| *Campylobacter upsaliensis* | bipA | Camp ups | CTTAGATGTAGGAGATAGTGTCGTTTGTC;CGGCAAAAACAATGCTTAAAGTT | HEX – TCCTCTCCCACTTGACCCACTTCACATT – BHQ |
| *Clostridium botulinum*  | 16S rDNA | CB 16S | CTGACGACAACCATGCACCA;GCGGAGCATGTGGTTTAATTCG | HEX – TGGACTTGACATCCCTTGCATAGCCTAGAGATAG – BHQ |
| *Clostridium difficile* | tpi | CD tpi | GGATTTAAAAGAAGCTACTAAGGGTA;GGTGAAACTTCTCCTGTAAATGC | FAM – ATAGGTGCTCAAAATATGCACTTTGAAGA – BHQ |
| *Clostridium perfringens*  | cpa | CP cpa | CTAGATATGAATGGCAAAGAGGAAACTA;TTAGCAGGATGATATGGAGTATCTATATCTC | FAM – CAAGCTACATTCTATCTTGGAGAGGCTATGCACTAT – Cy5 |
| *Clostridium* spp. | 16S rDNA | CP 16S | CTGACGACAACCATGCACCA;GCGGAGCATGTGGTTTAATTCG | HEX – AACGCGAAGAACCTTACCTACACTTGACATCC – BHQ |
| *Clostridium* *tetani*  | tetox | Clos tet | GATACCTGGGGCATTATAACCTACT;ATGAAATAGATTCTTTTGTTAGATCAGGTG | FAM – TTCCATCTTTCGGATAACCTACAATGTGCTCA-BHQ2 |
| *Cronobacter sakazakii* | rpsU gene 3' end and the primase (dnaG) gene 5' end | Crono rps | CGAGAATAAGCCGCGCATT;GGGATATTGTCCCCTGAAACAG | BHQ – FAM – TCGGAAGCACGGCCTCTACA |
| rpoB | Crono rpo | TGATGCCGCAGGATATGAT;GATCTCAGACAGCGGGTTGTT | BHQ – HEX – ACGCCAAGCCTATCTCCGCG |
| *Cryptosporidium* spp.  | hsp70 | Cryp par | CAAGCTGCTATCTTAAATGG;GAGCAACATCCAATAATAAGAG | FAM – TGAGCAATCCTCTGCCGTACAGG – BHQ |
| *Erysipelothrix rhusiopathiae* | ERH 1059 | ERH 1059 | CCCCATTCAAGTACGACGAC;GATGGACGACTGAACCTAAAAC | FAM – CGATTGCGTCGGATGATACACCCTCT – BHQ |
| sodA | ERH sod | TCCGCACAGCAGTTCAAAAC;CACCAGGCTCTTGACCTTTG | HEX – ACCATACGATGTTTTGGGAATTTCTATCCCCA – BHQ |
| *Escherichia coli*  | uidA | EC uid | CAACGAACTGAACTGGCAGA;CATTACGCTGCGATGGAT | BHQ – FAM – CCCGCCGGGAATGGTGATTAC |
| rfbE | EC rfbe | TTTCACACTTATTGGATGGTCTCAA;CGATGAGTTTATCTGCAAGGTGAT | BHQ – HEX – AGGACCGCAGAGGAAAGAGAGGAATTAAGG |
| *Giardia lamblia*  | β-giardin | GL | TCTATGTTCACCTCCACCCGTAC;TTGCTGAGCTTGACCGCC | FAM – TCACCCAGACGATGGACAAGCCC – BHQ |
| *Human Adenovirus* | hexon | AdV hex | CCAGGACGCCTCGGAGTA;AAACTTGTTATTCAGGCTGAAGTACGT | HEX – AGTTTGCCCGCGCCACCG – BHQ |
| *Human Adenovirus* serotype 40 and 41 | fiber | AdV fib | CGAACTTTCTCTCTTAATAGACGC;GGCGTTCAATGGCTAGTGTAAG | FAM – TAATGCTGACACGGGCACTCTTCG – BHQ |
| *Listeria monocytogenes* | hlyIII | LM hly | CATGGCACCACCAGCATCT;ATCCGCGTGTTTCTTTTCGA | HEX – CGCCTGCAAGTCCTAAGACGCCA – BHQ |
| *Listeria* spp.  | 23S rDNA | LM 23S | AGGATAGGGAATCGCACGAA;TTCGCGAGAAGCGGATTT | FAM – TCTCACACTCACTGCTTGGACGC – BHQ |
| *Mycobacterium avium* complex | IS1311 | MAC IS1311 | GCTGGACGCATTACGCAAT;CGTCAGCTCCGCATCGAT | HEX – CCGCCGAGACGATTTATCAGGCAC – Cy5 |
| *Mycobacterium avium* subsp. *avium* | IS901 | MAA IS901 | GTGATCAAGCACCTTCGGAA;GCTGCGAGTTGCTTGATGAG | HEX – AACAACATCGACACGATCGCCGACAA |
| *Mycobacterium avium* subsp. *hominissuis* and subsp. *avium* | IS1245 | MAHA IS1245 | CCGGATCTGCAAAGACCTC;CGACACCACCCGATGATTC | FAM – CCGTTGGGTGATCAGCGCTTTC |
| *Mycobacterium avium* subsp. *paratuberculosis*  | IS900 | MAP IS900 | GATGGCCGAAGGAGATTG;CACAACCACCTCCGTAACC | FAM – ATTGGATCGCTGTGTAAGGACACGT |
| F57 | MAP F57 | GCCCATTTCATCGATACCC;GTACCGAATGTTGTTGTCAC | FAM – CAATTCTCAGCTGCAACTCGAACACAC |
| *Mycobacterium* spp. | ITS | Myco ITS | CACTATTGGGCCCTGAGACAAC, TTGGGTCCTGAGGCAACAC, AGCAAGCCAGACACACTATTGG, TTGGGTCCTGAGGCAACAG;GATGCTCGCAACCACTATCCA | FAM – TTGGTGGTGGGGTGTGGTGTTTGA – Cy5 |
| *Mycobacterium* *tuberculosis*  | devR | Myco dev | CCGATGGCAACGGCATT;GAGGATCAGACAGCGCAGATC | HEX – AACTGTGCCGCGATCTGTTGTCCC – BHQ  |
| *Pseudomonas* *aeruginosa*  | gyrB | PA gyr | GCAAGGAGGAGCTGTTCAAG;GCTGGACGTTGAAGTGGAAT | FAM – CAACAAGACCGCGGTGAACG – BHQ |
| ecfX | PA ecf | CAGGATACTTTCGCCCAGTG;GCGATCTGGAAAAGAAATGC | HEX – AATCGGTCGAGCAGCCGC – BHQ |
| *Pseudorabies virus* | gB | PRV | ACAAGTTCAAGGCCCACATCTAC;GTCYGTGAAGCGGTTCGTGAT | FAM – ACGTCATCGTCACGACCGTGTGGTC – Cy5 |
| *Salmonella enterica*  | ttr | SE ttr | CTCACCAGGAGATTACAACATGG;AGCTCAGACCAAAAGTGACCATC | FAM – CACCGACGGCGAGACCGACTTT – BHQ1 |
| *Staphylococcus aureus* | SA442 | SA442 | CGACTAAATAAACGCTCATTCG;CTCTCGTATGACCAGCTTCG | FAM – CGTTGCATCGGAAACATTGTGTTC – BHQ |
| nuc | SA nuc | CAGCAAATGCATCACAAACAG;GCTTTAATTAATGTCGCAGGTTC | HEX – CGTAAATAGAAGTGGTTCTGAAGATCC – BHQ |
| *Toxoplasma gondii*  | B1 gene | T gon | TCGAAGCTGAGATGCTCAAAGTC;AATCCACGTCTGGGAAGAACTC | FAM – ACCGCGAGATGCACCCGCA – BHQ |
| Verotoxigenic *Escherichia coli* | stx 1, 2 | VTEC stx | TTTGTYACTGTSACAGCWGAAGCYTTACG;CCCCAGTTCARWGTRAGRTCMACRTC1 | FAM – CTGGATGATCTCAGTGGGCGTTCTTATGTAA – BHQ, FAM – TCGTCAGGCACTGTCTGAAACTGCTCC – BHQ |
| eae | VTEC eae | CATTGATCAGGATTTTTCTGGTGATA;CTCATGCGGAAATAGCCGTTA | HEX – ATACTCTCGCCAGTATTCGCCACCAATACC – BHQ |
| *Yersinia* *enterocolitica*  | ail | YE ail | ATGATAACTGGGGAGTAATAGGTTCG;CCCAGTAATCCATAAAGGCTAACATAT | HEX – TCTATGGCAGTAATAAGTTTGGTCACGGTGATCT – BHQ |
| *Yersinia* *pestis*  | caf1 | YP caf | AACCAGCCCGCATCACTCTTA;TTCCTGTTTTATAGCCGCCAAGA | FAM – AGGCGCTCCAATTACAATTATGGACAATGGA – BHQ |
| pla | YP pla | TAAATTCAGCGACTGGGTTCGG;AAAGACTTTGGCATTAGGTGTGAC | HEX – AGAAGACATCCGGCTCACGTTATTATGGTA – BHQ |
| *Yersinia* spp*.*  | ompF | YE omp | AGRCCAGTAGAACGRCCAG;GYCTGGGCTTYGCKGGTCTG | FAM – TTGTCAGAGTTGGAGATTGAATCACCACCGA – BHQ |

1 For degenerate sequences, Y is (C, T), S is (C, G), W is (A, T), R is (A, G) and M is (A, C).