**S2 Table.** **List of Primers and probes to study honey bee pathogens**. Sequences of primers and probes used in Real-Time PCR for the detection of pathogens in individual bee samples and PCR conditions were obtained from previously published works.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **FORWARD (5′ - 3′)** | **REVERSE (5′ - 3′)** | **PROBE (5’-FAM - 3’-TAMRA)** | **Reference** |
| BQCV  | GGTGCGGGAGATGATATGGA | GCCGTCTGAGATGCATGAATAC | TTTCCATCTTTATCGGTACGCCGCC | [4] |
| KBV  | ACCAGGAAGTATTCCCATGGTAAG | TGGAGCTATGGTTCCGTTCAG | CCGCAGATAACTTAGGACCAGATCAATCACA | [4] |
| IAPV  | RCRTCAGTCGTCTTCCAGGT | CGAACTTGGTGACTTGARGG | TTGCGGCAATCCAGCCGTGAAAC | [5] |
| DWV  | CCTGGACAAGGTCTCGGTAGAA | ATTCAGGACCCCACCCAAAT | CATGCTCGAGGATTGGGTCGTCGT | [4] |
| APV  | TCCTATATCGACGACGAAAGACAA | GCGCTTTAATTCCATCCAATTGA | TTTCCCCGGACTTGAC | [4] |
| CPV  | TCTGGCTCTGTCTTCGCAAA | GATACCGTCGTCACCCTCATG | TGCCCACCAATAGTTGGCAGTCTGC | [4] |
| *N. apis*  | ATTTACACACCAGGTTGATTCTGC | TGAGCAGTCCATCTTTCAGTACATAGT | TGACGTAGACGCTATTC (MGB) | [3] |
| *N. ceranae*  | TTGAGAGAACGGTTTTTTGTTTGAG | TTCCTACACTGATTGTGTCTGTCTTTAA | ATAATAGTGGTGCATGGCCGTTTTCAATGG | [3] |

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