Table 2. Results [positive, negative or non applied (-)] of molecular, immnunohistochemical, and histochemical assays performed on brain samples from animals under study.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Case No.** | **Ref. Lab.** | **PCR** | **IHC** | **HC** |
| CeMV | HV | *Brucella* spp. | *T. gondii* | *Nasitrema* spp. |
| 1 | I-082/01 (CET 123) | Negativea | - | Negativea | Positiveb | - | *T. gondii* | PAS |
| 2 | I-086/01 (CET 124) | Negativea | Positive | - | - | - | - | - |
| 3 | I-381/01 (CET 152) | Negativea | - | Negativea | Positiveb | - | *T. gondii* | PAS |
| 4 | I-154/02 (CET 195) | DMVb | Negative | Negativeb | Negativea | - | CDV | - |
| 5 | I-130/04 (CET 260) | Negativec | Negative | Positivea, b | - | - | *Brucella* sp. | - |
| 6 | I-225/05 (CET 305) | DMVa, c | Negative | Positivea | - | - | CDV/*Brucella* sp. | - |
| 7 | I-265/05 (CET 308) | DMVa, c | Negative | Negativea | - | - | CDV | - |
| 8 | I-022/07 (CET 364) | Negativec | Negative | Positivea | - | - | - | - |
| 9 | I-071/07 (CET 373) | Negativeb | Negative | Negativeb | Negativea | - | CDV | - |
| 10 | I-091/07 (CET 380) | DMVb | Positive | Negativeb | Negativea | - | CDV | - |
| 11 | I-137/08 (CET 409) | DMVb | Negative | Negativeb | Negativea | - | CDV | - |
| 12 | I-149/08 (CET 431) | DMVa | Negative | Negativea | - | - | CDV | - |
| 13 | I-063/09 (CET 475) | Negativea | - | - | Positiveb | - | *T. gondii* | PAS |
| 14 | I-007/09 (CET 476) | DMVb | Negative | Negativeb | Negativea | - | CDV | - |
| 15 | I-119/10 (CET 515) | Negativea | - | Negativea | Positiveb | - | *T. gondii* | PAS |
| 16 | I-125/10 (CET 522) | Negativea | - | Negativea | Positiveb | - | *T. gondii* | PAS |
| 17 | I-123/10 (CET 530) | Negativea | Negative | Negativea | Positiveb | - | *T. gondii* | PAS |
| 18 | I-033/11 (CET 554) | Negativeb | Positive | Negativeb | Negativea | - | - | - |
| 19 | I-014/11 (CET 558) | DMVb | Negative | Negativeb | Negativea | - | CDV | - |
| 20 | I-083/11 (CET 564) | Negativea | Negative | Negativea | - | Positive | - | - |
| 21 | I-145/11 (CET 574) | Negativeb | Positive | Negativeb | Negativea | - | - | - |
| 22 | I-158/11 (CET 575) | Negativec | - | Positivea | - | - | - | - |
| 23 | I-229/11 (CET 583) | PWMVc | - | - | - | - | CDV | - |
| 24 | I-379/11 (CET 594) | PWMVc | - | - | - | - | CDV | - |
| 25 | I-065/12 (CET 614) | DMVa | - | - | - | - | CDV | - |
| 26 | I-071/12 (CET 618) | Negativec | - | Positivea | - | - | - | - |
| 27 | I-067/13 (CET 666) | PWMVa, c | - | - | - | - | CDV | - |
| 28 | I-289/13 (NA) | Negativea, c | Positive | - | - | - | - | - |
| 29 | I-151/14 (CET 717) | Negativea | Positive | - | - | - | - | - |
| 30 | I-317/14 (CET 732) | Negativea, c | Negative | Positivea | - | - | - | - |
| 31 | I-280/15 (CET 758) | PWMVa, c | Negative | - | Negativeb | - | CDV | PAS/Grocott |
| 32 | I-416/15 (CET 772) | Negativea, c | Positive | - | - | - | - | - |
| 33 | I-08/16 (NA) | Negativea | Positive | - | - | - | - | - |
| 34 | I-287/16 (CET 798) | Negativec | Positive | - | - | - | - | - |
| 35 | I-907/16 (CET 810) | DMVa | Positive | - | - | - | CDV | - |
| 36 | I-167/17 (CET 854) | Negativec | Positive | Negativea | Negativeb | - | - | - |
| 37 | SA038/18 (CET 884) | Negativec | Positive | Positivea | - | - | - | - |
| 38 | SA223/18 (CET 921) | DMVc | Positive | - | - | - | CDV | - |

Ref. Lab.: Laboratorial Reference; CeMV: Cetacean Morbillivirus (DMV: Dolphin Morbillivirus, PWMV: Pilot Whale Morbillivirus); HV: Herpesvirus; *T. gondii:* *Toxoplasma gondii*; IHC: Immunohistochemistry; HC: Histochemistry; PCR: Polymerasa Chain Reaction methods:

* CeMV: a, one-step RT-PCR of a 426-bp conserved region of the phosphoprotein (P) gene; b, RT-PCR using nested primers also targeted at the P gene; c, one-step real-time RT-PCR to detect sequences in a conserved region (192 bp) of the fusion protein gene.
* HV: conventional nested PCR using degenerate primers designed to amplify a region of the DNA polymerase gene
* *Brucella* spp.: a, quantitative duplex-PCR amplifying a 150 bp fragment of the IS711 gene for the detection of Brucella at the genus level and the identification of genotype ST27; b, PCR using primers amplifying a 223-bp fragment of the bcsp31 gene.
* *T. gondii*: a, real-time PCR targeting a 529-bp repeat element of *T. gondii*; b, real-time PCR based on a 163 bp sequence within the *T. gondii* small subunit ribosomal RNA (18SrRNA)
* *Nasitrema* spp.: real time PCR based upon the partial NADH dehydrogenase, subunit 3 gene of *Nasitrema delphini*.