|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Primer name (gene) | Primer sequence (5’-3’) | Location  | Genome position | Expected size (base pairs) |
| B19 F  | AATACACTGTGGTTTTATGGGCCG | NS1 | 1399-1422 | 284 |
| B19 R  | CCATTGCTGGTTAACCACAGGT | NS1 | 1659-1682 |
| B19 NF | AATGAAAACTTTCCATTTAATGATGTAG | NS1 | 1495-1525 | 103 |
| B19 NR | CTAAAATGGCTTTTGCAGCTTCTAC | NS1 | 1576-1600 |
| PF | CAGTTATCTGACCACCCCCATGC | VP1 | 2699-2721 | 227 |
| PR | GCCAGTTGGCTATACCTAAAGTCAT | VP1 | 2925-2901 |
| P7 F | TGCAGAAGCCAGCACTGGTGCA | VP1/2 | 3142-3163 | 138 |
| P9 R | GTGCTCTGGGTCATATGGAAT | VP1/2 | 3260-3280 |
| P7 F | TGCAGAAGCCAGCACTGGTGCA | VP1/2 | 3142-3163 | 445 |
| P11 R | ATGGTCTACTAACATGCATAGGC | VP1/2 | 3567-3589 |
| P8 F | ATTCCATATGACCCAGAGCAC | VP1/2 | 3260-3280 | 322 |
| P11 R | ATGGTCTACTAACATGCATAGGC | VP1/2 | 3589-3567 |
| P10 F | GCCTATGCATGTTAGTAGACCAT | VP1/2 | 3567-3589 | 671 |
| P14 R | CACTCCTTGCTGATACTCTTTGTC | VP1/2 | 4214-4237 |
| P12 F | CAGCCATACCACCACTGGGACA | VP1/2 | 4127- 4148 | 111 |
| P14 R | CACTCCTTGCTGATACTCTTTGTC | VP1/2 | 4214-4237 |
| P12 F | CAGCCATACCACCACTGGGACA | VP1/2 | 4127- 4148 | 563 |
| P16 R | AGTACATATGGTAAATGACCTGCTG | VP1/2 | 4665-4689 |
| P13 F | GACAAAGAGTATCAGCAAGGAGTG | VP1/2 | 4214-4237 | 476 |
| P16 R | AGTACATATGGTAAATGACCTGCTG | VP1/2 | 4665-4689 |
| P12 F | CAGCCATACCACCACTGGGACA | VP1/2 | 4127- 4148 | 698 |
| P17 R | TTACGCATCCTGGCTGAGGGCA | VP1/2 | 4803- 4824 |
| P13 F | GACAAAGAGTATCAGCAAGGAGTG | VP1/2 | 4214-4237 | 610 |
| P17 R | TTACGCATCCTGGCTGAGGGCA | VP1/2 | 4803-4824 |

**Table S1:** List ofOligonucleotide primers used for amplifying the B19 NS1, VP1/2 gene

**Table S1.1:** Clinical manifestations versus molecular diagnosis

|  |  |
| --- | --- |
|  | **N=456** |
| **nPCR****N=33** | **qPCR****N=30** | **No virus** **N=423** |
| **Age(years)** |  |  |  |
| ≤6 | 8(24.3) | 7(23.4) | 112(26.5) |
| ≥50 | 25(75.7) | 23(76.6) | 311(73.5) |
| **Clinical diagnosis**  |  |  |  |
| Acute lymphoblastic leukemia  | 12(36) | 11(36) | 223(52) |
| Aplastic anemia  | 3(9) | 4(13) | 130(30) |
| Meningitis | 12(36) | 10(33) | 395(93) |
| pyrexia | 3(8) | 2(6) | 256(60) |
| Encephalitis | 14(42) | 12(40) | 147(34) |
| Liver failure | 7(21) | 6(20) | 230(54) |
| Multi organ failure  | 8(24) | 4(13) | 268(63) |
| Hepatitis  | 4(12) | 2(6) | 291(68) |

Notes: N denotes number of samples; nPCR-nested PCR; qPCR-quantitative PCR

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