**Table S3. Cycling conditions for the traditional and two direct real-time PCR methods.**

|  |  |  |  |
| --- | --- | --- | --- |
| Methods | Temperature | Time | Cycles |
| Traditional (TaqMan) | 50°C | 2 min | 1 |
| 95°C | 10 min | 1 |
| 95°C | 15 sec | 50a |
| 60°C | 1 min |
|  |  |  |  |
| Direct (5x Omni and PerfeCTa) | 95°C | 10 min | 1 |
|  | 95°C | 15 sec | 50 a |
|  | 60°C | 1 min |
|  |  |  |
| Direct (5x Omni)b | 94°C | 5 min | 1 |
| 94°C | 30 sec | 50 a  |
|  | 55°C | 30 sec |
| 68°C | 30 sec |
| 68°C | 1 min | 1 |

**a** Annealing and extension were run for a total of 50 cycles.

b Direct real-time PCR cycling condition for *lytA* and *hpd* #1 tests using 5x Omni.