**Table S2. Reaction assembly for traditional and two direct real-time PCR methods.**a

|  |  |  |
| --- | --- | --- |
| Methods | Reagent | Volume per reaction (µl)  |
| Traditional (TaqMan) | Taq mix | 12.5 |
| PCR Grade H20 | 4.5 |
| Forward Primer | 2 |
| Reverse Primer | 2 |
| Probe | 2 |
|  | Extracted DNA | 2 |
|  | Total Volume | 25 |
| Direct (5x Omni) | 5x OmniTaq mix | 5 |
| PEC-2  | 12.5 |
| PCR Grade H20 | 2.5 |
| Forward Primer | 1 |
| Reverse Primer | 1 |
| Probe | 1 |
|  | CSF | 2 |
|  | Total Volume | 25 |
| Direct (PerfeCTa) | ToughMix | 12.5 |
| PCR Grade H20 | 7.5 |
| Forward Primer | 1 |
| Reverse Primer | 1 |
| Probe | 1 |
|  | CSF | 2 |
|   | Total Volume Volume | 25 |

a A 25-ul PCR reaction was used for the traditional real-time PCR and direct real-time PCR methods.