**Table S6** Comparison of LAMP-XO, conventional PCR, and qPCR assays

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|  | **LAMP-XO** | **PCR** | **qPCR**  |
| Temperature cycle | Isothermal amplification (60–65 °C) | Different temperature cycles required | Different temperature cycles required |
| Equipment | Heat block | Thermocycler | Thermocycler |
| Product detection | Naked eye | Electrophoresis | Real-time protocol |
| Analysis time | 75–90 min | 160 min | 130 min |
| Cost/1 reaction | ~ 0.54 US$ | ~ 0.79 US$ | ~ 0.76 US$ |
| Ease of use | Easy to carry out | Requires trained personnel | Requires trained personnel |