**A rapid and visual detection of SARS-CoV-2 using multiplex reverse transcription loop-mediated isothermal amplification linked with gold nanoparticle-based lateral flow biosensor**

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**Supplementary Materials**

**Results**

*RdRp* and *N* genes sequence alignment among seven human coronaviruses (SARS-CoV-2, SARS-CoV, MERS-CoV, HCoV-HKU-1, HCoV-NL63, HCoV-OC43, HCoV-229E), respectively (**Supplementary Figure 1**).

Comparison of RT-PCR and mRT-LAMP-LFB results for clinical samples and artificial sputum samples (**Supplementary Table 1)**