Coronavirus Lateral Flow Assay (LFA) operation protocol

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ABSTRACT

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MATERIALS

PBS Invitrogen - Thermo Fisher

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Protocol status: Working
We use this protocol in our laboratory and it is working

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PROTOCOL integer ID:
41515

1 Place ELISA plate on lid so that angled towards you.
2 Vortex conjugate to mix (gold particles settle out) and pipette \(10 \mu L\) into front of first well (A1).

3 Pipette \(50 \mu L\) PBS into first well of next row (B1).

4 Add \(30 \mu L\) of sample (follow the sample preparation protocol for sample preparation) to conjugate and mix by pipetting, keeping mixture at front of well.

5 Place bottom end of LFA strip in conjugate/sample mixture.

6 Allow reagents to move up strip by capillary action for approximately \(00:10:00\).

7 Transfer strip to PBS well to wash away unbound gold conjugate and improve signal vs background.
Read results on strips. The upper band (control line) should be present in all samples, ensuring correct performance of the assay. The ‘test line’ will appear below the ‘control line’ if the sample is SARS-CoV-2 positive.