

Sep 03, 2020

# Coronavirus Lateral Flow Assay (LFA) operation protocol

In 1 collection

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1 Works for me dx.doi.org/10.17504/protocols.io.bksjkwcn

XPRIZE Rapid Covid Testing Highfield Diagnostics

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## ABSTRACT

Coronavirus Lateral Flow Assay (LFA) operation protocol

## DOI

dx.doi.org/10.17504/protocols.io.bksjkwcn

## PROTOCOL CITATION

peijun he 2020. Coronavirus Lateral Flow Assay (LFA) operation protocol. **protocols.io**  
<https://dx.doi.org/10.17504/protocols.io.bksjkwcn>

## COLLECTIONS ⓘ

**Highfield Diagnostics COVID19 LFA Protocol**

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## CREATED

Sep 03, 2020

## LAST MODIFIED

Sep 04, 2020

## PROTOCOL INTEGER ID

41515

## PARENT PROTOCOLS

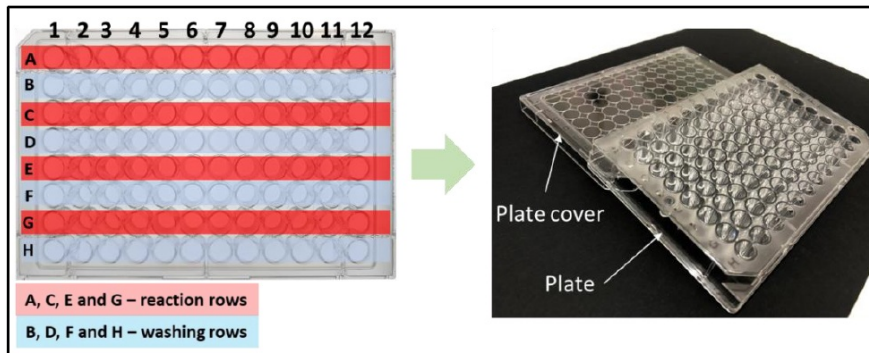
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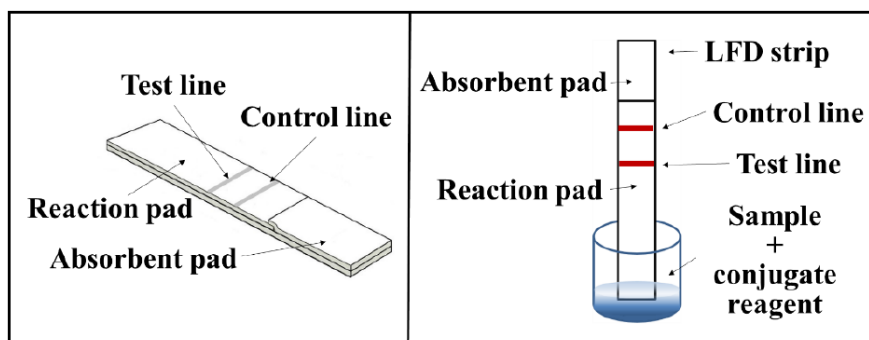
## MATERIALS

NAME	CATALOG #	VENDOR
PBS		Invitrogen - Thermo Fisher

- 1 Place ELISA plate on lid so that angled towards you.



- 2 Vortex conjugate to mix (gold particles settle out) and pipette **10 µl** into front of first well (A1).
- 3 Pipette **50 µl PBS** into first well of next row (B1).
- 4 Add **30 µl** 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.
- 8 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.