

Sep 03, 2020

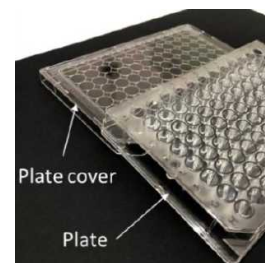
Version 1

🌐 Coronavirus Lateral Flow Assay (LFA) operation protocol V.1

📁 In 1 collection

DOI

<https://dx.doi.org/10.17504/protocols.io.bksjkwcn>



peijun he¹

¹Highfield Diagnostics, UK

Coronavirus Method De...

XPRIZE Rapid Covid Tes...

1 more workspace

 peijun he

Create & collaborate more with a free account

Edit and publish protocols, collaborate in communities, share insights through comments, and track progress with run records.

Create free account

OPEN  ACCESS



DOI: <https://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>

License: This is an open access protocol distributed under the terms of the **Creative Commons Attribution License**, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited

Protocol status: Working

We use this protocol in our laboratory and it is working

Created: September 03, 2020

Last Modified: September 03, 2020

Protocol Integer ID: 41515

Keywords: operation protocol coronavirus lateral flow assay, coronavirus lateral flow assay, lfa, assay

Abstract

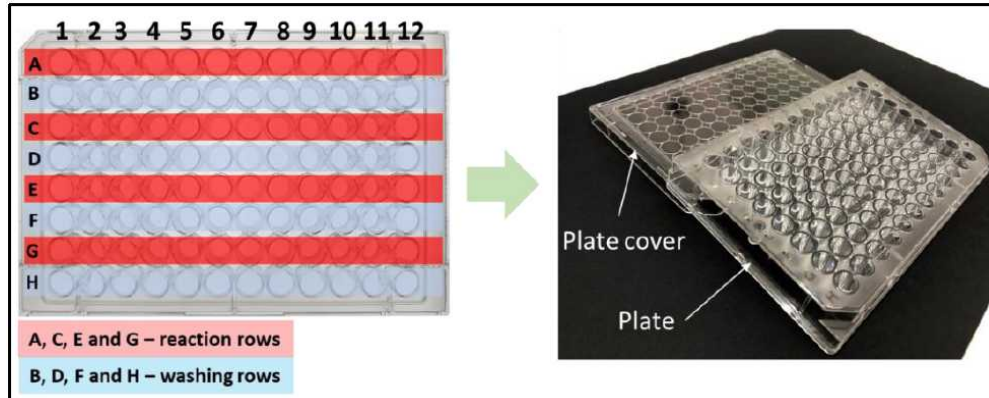
Coronavirus Lateral Flow Assay (LFA) operation protocol

Materials

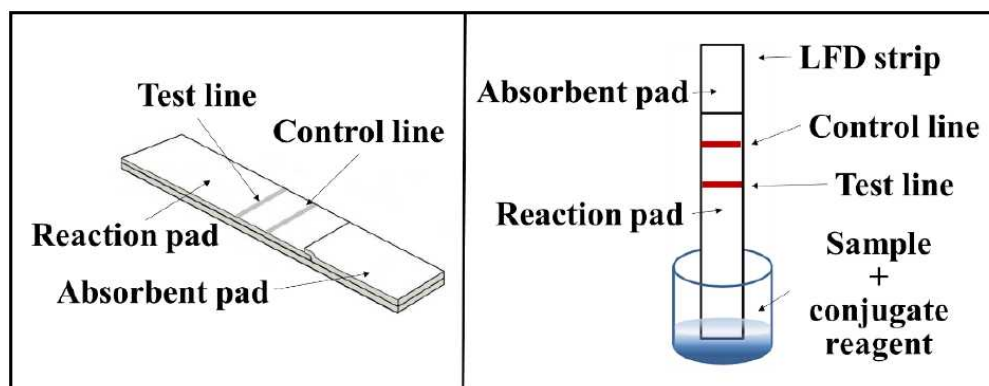
MATERIALS

 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 $10\ \mu\text{L}$ into front of first well (A1).
- 3 Pipette $50\ \mu\text{L}$ PBS into first well of next row (B1).
- 4 Add $30\ \mu\text{L}$ 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.
- 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.