SEP 08, 2020

Open Isothermal Platform Protocol

Andrew

Buultjens¹,

Koen Vandelannoote², Tim Stinear¹

¹The University of Melbourne; ²Institut Pasteur du Cambodge

XPRIIZE Rapid Covid Testing

Open-Isothermal-Platforms Dx

[1 more workspace](#) ↓

buultjensa

OPEN ACCESS

DOI:

dx.doi.org/10.17504/protocols.io.bk3nkyme

Protocol Citation: Andrew Buultjens, Koen Vandelannoote, Tim Stinear 2020. Open Isothermal Platform Protocol.

protocols.io

<https://dx.doi.org/10.17504/protocols.io.bk3nkyme>

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 and it's working

Created: Sep 08, 2020

Last Modified: Sep 08, 2020

PROTOCOL integer ID:
41806

1 Extract RNA as per dx.doi.org/10.17504/protocols.io.bkynkxve

Transfer 5ml of extracted RNA to pre-aliquoted LAMP mix. Mix by pipetting up and down 5 times.

2

3 Add 5ml of H₂O in negative control well 7.

4 Add 5ml of positive control in well 8.

5 Cap all wells

6 Place strips in FABL-8

7 Run FABL-8 as per manual

8 LAMP reaction (can refer to N1-STOP-LAMP paper)

Single reaction setup:

Reagent	Volume (ml)
Optigene Master Mix	15
N1 primer	5
Extracted RNA	5
Total	25

To reduce pipetting error, Master Mix and N1 primer are premixed according to the number of reactions desired (allow for pipetting error by preparing enough for ~1.1x the number of reactions, rounded to the nearest whole number); 20ml of this mixture is then aliquoted per reaction.