protocols.io

LAMP assay

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| 1 | Works for me | dx.doi.org/10.17504/protocols.io.8jahuie |

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ABSTRACT

This is a protocol used to perform LAMP assays. It was adapted to https://international.neb.com/protocols/2016/08/15/warmstart-colorimetric-lamp-2x-master-mix-typical-lamp-protocol-m1800

1   Prepare a 10X primermix according to the following scheme:

Primer	Concentration
FIP	16 uM
BIP	16 uM
F3	2 uM
B3	2 uM
LOOP F	8 uM
LOOP B	8 uM

2   Add the following components to a microcentrifuge tube

Component	Volume added (25 uL reaction)	Volume added (10 uL reaction)
Mastermix	12.5 uL	5 uL
Lamp primers (10X)	2.5 uL	1 uL
Template	x uL	x uL
MilliQ	10 − x uL	4 − x uL

Add a no-template control to ensure template-specificity

3   Incubate at 65 C for 30 minutes.

4   Record the color of all samples. Yellowing of a sample indicates a positive result.

5   In case of doubt regarding the result of a sample, run it on an agarose gel. The presence of many bands, often not individually recognizable, indicates a positive result.