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LAMP assay

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Protocol status: Working
We use this protocol and it's working

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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.