RT-LAMP Colorimetric Master Mix(Red/Yellow)

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Manual Version: V1.1

Product information

Product Name	Cat. No.	Size
RT-LAMP Colorimetric Master Mix(Red/Yellow)	HMD5202-01	100rxn
	HMD5202-02	1000rxn
	HMD5202-03	10000rxn

Product description

This kit is supplied with *BstL* DNA Polymerase, thermostable Reverse Transcriptase and the buffer, which contians Mg^{2+}, dNTP and visible dye.

This kit provides a fast, clear visual detection of amplification, which negative reaction is indicated in red and positive reaction is indicated by a change to yellow.

Product components

Component	Loop-mediated Amplification Buffer (with dye)	RT-Enzymes Mix
HMD5202-01	1.3 mL	130 μL
HMD5202-02	4.5 mL×3	1.3 mL
HMD5202-03	10 mL×15	1.3 mL×10

Usage

For DNA or RNA isothermal amplification.

Transportation and storage conditions

Transported with icze bags, stored at -25 ~ -15℃. Avoid repeated freezing and thawing, the product is valid for 12 months.

Protocol

1. Thaw buffer to be used at room temperature. Vortex briefly or invert tubes several times to mix thoroughly. Centrifuge to collect material and place on ice.

2. Prepare reaction mix as described below.

Component	Volume
Loop-mediated Amplification Buffer（with dye)	13 μL
RT-Enzymes Mix	1.3 μL
10×Primer Mix	5 μL
Target DNA/RNA	x μL
Nuclease-free Water	up to 50μL

10×Primer Mix: FIP/BIP 16μM，LoopF/B: 4 μM，F3/B3:2 μM.

Incubate at 65℃ for 30 - 45 minutes. Return reactions to 65℃ for an additional 10 minutes if color is not yellow.

4. Examine colour by eye, positive reactions will have turned yellow while negative controls should remain red.

Notices

1. Buffer needs to be fully melted at room temperature and stored at - 25~- 15 ℃ after use.

2. Reagents after subpackage shall not be exposed to air for a long time.

3. The red yellow discoloration reaction depends on the pH change of the reaction system. Please do not use the nucleic acid preservation solution containing Tris. It is recommended to use the nucleic acid preserved by ddH_2O.