PRODUCT INFORMATION

2X Colorimetric RT-LAMP Master Mix

v. 230101

Catalog number C15018-1ML

Set package

Cat.	Name	Amount
C15018-1ML	2X Colorimetric RT-LAMP Master Mix	1 mL

Description

Croyez 2X Colorimetric RT-LAMP Master Mix is an optimized master mix for reverse-transcription loop-mediated isothermal amplification (RT-LAMP) reactions. This product is a dual enzyme system, providing a rapid and sensitive detection in one pot.
The amplified products can be visually observed by a metal indicator for calcium, hydroxynaphthol blue (HNB). Positive reactions will appear a color change from violet to sky blue, while negative reactions won't.

Storage Stored at -20°C. **Avoid repeated freeze/thaw cycles.**

Manuel

The following procedure is a general guideline for RT-LAMP reaction. To maintain an RNase-free environment, always wear disposable gloves, and use laboratory consumables and water of nuclease-free grade during the whole experiment course. **RT-LAMP reaction set-up:**

1. 10X LAMP primer mix

Component	10X concentration	Final concentration
FIP	16 μM	1.6 μM
BIP	16 μM	1.6 μM
F3	2 μM	0.2 μM
B3	2 μM	0.2 μM
LOOP F	8 μM	0.8 μM
LOOP B	8 μM	0.8μM

2. An overview of the reaction set-up is listed in the table below. Place all required reagents **on ice**. Distribute appropriate volumes into each tube before adding template.

Component	Amount	Final concentration
2X Colorimetric RT-LAMP Master Mix	12.5 μL	1X
10X LAMP primer mix	2.5 μL	1X
RNA template	1-2 μL	variable
Nuclease-Free H_2O	X μL	-
Total reaction volume	μL	-

	* See Usage Notes for additional guidelines on primer/template preparation. 3. Add target RNA template to the detection tube. Gently mix the reaction thoroughly to achieve uniform distribution and avoid making bubbles. 4. Incubate at 65°C for 30-60 min. 5. After LAMP reaction complete, the enzyme can be inactivated by heating at 80°C for 10 min.
Usage Notes	***Primer concentration*** Primer concentration can be titrated between 0.25X – 1X if undesired background signal appeared.

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