

Catalog number	C15029-1ML		
Set package	Cat.	Name	Amount
	C15029-1ML	StablePlus™ 2X Colorimetric RT-LAMP Master Mix	1 mL
Description	<p>Croyez StablePlus™ 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. The StablePlus™ version contains nucleic acid stabilizing agent to protect the amplified products.</p>		
Storage	Stored at -20°C. Avoid repeated freeze/thaw cycles.		

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:**

- 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	0.8 µM

Manuel

- 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
StablePlus™ 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 H₂O	X μ L	-
Total reaction volume	25 μ L	-

* 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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