

Leadgene[®] 2X Colorimetric RT-LAMP Master Mix

Cat no. LDG0020RF

Product Overview

Package component

Item	Content
2X Colorimetric	1 vial (1 mL)
RT-LAMP Master Mix	

Description

Leadgene[®] 2X Colorimetric RT-LAMP Master Mix is an optimized master mix for reverse-transcription loopmediated 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 and Stability

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

Procedure

The following procedure is a general guideline for qPCR 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	

Product Information & Manual

Information of other products is available at: www.leadgenebio.com

F3	2 µM	0.2 μΜ	
B3	2 µM	0.2 μΜ	
LOOP F	8 µM	0.8 µM	
LOOP B	8 μΜ	0.8 µM	

 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	12.5 μL	1X
Master Mix		
10X LAMP primer mix	2.5 μL	1X
Nuclease-Free H ₂ O	XμL	-
RNA template	1-2 μL	variable
Total reaction volume	25 μL	-

 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.

Important notes

Primer concentration

Primer concentration can be titrated between 0.25X - 1X if undesired background signal appeared.

Disclaimer

This product is for research use only and is not intended for diagnostic use.





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