

PRODUCT INFORMATION

2X Fluorescent RT-LAMP Master Mix

v. 230101

Catalog number	C15033-1ML							
	Cat.		Name			Amount		
Set package		2X Fluore	2X Fluorescent RT-LAMP Master Mix				1 mL	
	C15033-1ML 50X LAM		P Fluorescent Dye			40 µL		
Description	Croyez 2X Fluorescent 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. A fluorescent dye is also supplied with the kit. The LAMP reactions can be monitored through real-time fluorescence detection.							
Storage	Stored at -20°C. Protect from light. Avoid repeated freeze/thaw cycles.							
Manuel	consumables and water of nuclease-free grade during the whole experimentcourse. RT-LAMP reaction set-up:1. 10X LAMP primer mixComponent10X 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		
	 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			Amo		Final concentration		
	2X Fluorescent RT-LAMP		Master Mix	12.5 µL		1X		
	10X LAMP primer mix			2.5 µL		1X		
	50X LAMP Fluorescent Dye		e 0.5		-	1X		
	RNA template		1-2		-	variable		
	Nuclease-Free H₂O		X		JL		-	
	Total reaction volume		μι			-		

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	* 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.				
	6. For real-time detection, collect fluorescent data using the SYBR® or FAM				
	channels.				
Usage Notes	 Primer concentration Primer concentration can be titrated between 0.25X – 1X if undesired background signal appeared. Reaction mixture preparation Fluorescent dye should be freshly added to the reaction mixture. 				

For Research Use Only.