

Ver. 2501-00

HelixAmp™ Color LAMP Lyo-Cake

Kit Contents

HelixAmp™ Color LAMP Lyo-Cake		
Cat. No.	LPSLP-C96 (96rxns)	
Color LAMP Lyo-Cake	8-strip x 12ea	
10x Color LAMP Buffer	0.3ml x 1ea	
8-Cap Strip	12ea	
Instructions for Use	1ea	

Description

HelixAmp™ Color LAMP Lyo-Cake offers rapid detection of target DNA using loop-mediated isothermal amplification (LAMP). The kit employs a pH-sensitive dye, Neutral Red, to provide visual confirmation of amplification. The lyophilized formulation ensures stability for room-temperature storage and transport. Each cake contains dNTPs, Mg²⁺, salts, Bst DNA Polymerase, and Neutral Red dye. With an appropriate LAMP primer set, it facilitates detection within 20 minutes, indicated by a visible color change.

Application

Loop-Mediated Isothermal Amplification (LAMP) of DNA Visible detection of results

Storage

- Store at room temperature for a maximum of 6 months.
- For extended storage, keep at or below 4℃ for up to 12 months.
- Protect from direct light exposure.
- After opening, reseal the pouch and store in a freezer for subsequent use.



Quality Control

Each lot of **HelixAmp™ Color LAMP Lyo-Cake** was tested against predetermined specifications to ensure consistent product quality.

Protocol

1. Reaction Mixture

Add the following components to a tube containing the Color LAMP Lyo-Cake and mix well:

Components	Volumes	
Template ¹⁾	X μl	
Primer mix 1), 2)	2µl	
10x Color LAMP Buffer	2.5µl	
RNase-free Water	Adjust to final 25µl	

¹⁾ Use RNase-free water for primer stock preparation and template dilution. Avoid any other buffered solutions.

• FIP/BIP Primers: 40μM/rxn.

• LF/LB Primers: 20μM/rxn.

• F3/B3 Primers: 5µM/rxn.

Adjust primer concentrations if efficiency is low or non-specific amplification occurs.

2. Reaction Condition

Incubate at 65°C for 20~40 minutes.

If the target is amplified, the color changes from yellow to pink.

Adjusting the incubation time according to the primer set is recommended. If the color change is not obvious after a 20 minutes reaction, continue incubating at 65°C for an additional 10-20 minutes. Cool the reaction at room temperature to observe distinct color changes.

Products

Cat. No.	Products	Size
LPSLP-C96	HelixAmp™ Color LAMP Lyo-Cake	96rxns

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²⁾ Recommended primer concentrations per reaction: