

HelixAmp™ pH-Sensing LAMP

Kit Contents

HelixAmp™ pH-Sensing LAMP		
Cat. No.	PSLMP100 (100rxns)	PSLMP500 (500rxns)
2x PHD LAMP Premix	1.25ml x 1ea	1.25ml x 5ea
Instructions for Use	1ea	1ea

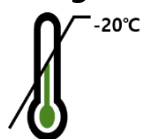
Description

HelixAmp™ pH-Sensing LAMP provides a simple detection for loop-mediated isothermal amplification (LAMP) of DNA targets. This kit allows simple detection of amplification by eyes using a pH-Sensing dye such as phenol red, neutral red, cresol red, etc. (not included in this kit). 2x PHD LAMP Premix is provided in this kit. The premix contains dNTPs, Mg²⁺, salts and *Bst* DNA Polymerase. Using an appropriate LAMP primer set, HelixAmp™ pH-Sensing LAMP quickly detects amplification within 20 minutes.

Application

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

Storage



Store below -20°C

Shelf life



12 months

Quality Control

By NanoHelix's ISO 13485-certified Quality Management System, each lot of **HelixAmp™ pH-Sensing LAMP** was tested against predetermined specifications to ensure consistent product quality.

Protocol

1. Reaction Mixture

Components	Volumes
Template ¹⁾	X μ l
2x PHD LAMP Premix	12.5 μ l
Primer mix ²⁾	Y μ l
pH indicating dye (2.5mM) ³⁾	1 μ l
RNase-free Water	Adjust to final 25 μ l

¹⁾ Do **NOT** use buffer solution to make primer stock and template dilution. RNase-free Water is recommended.

²⁾ It is recommended that

- ◆ FIP/BIP Primers: 40 μ M/rxn.
- ◆ LF/LB Primers: 20 μ M/rxn.
- ◆ F3/B3 Primers: 5 μ M/rxn.

If there is low-efficiency or non-specific amplification, the primer concentrations should be modified.

³⁾ For the 'pH indicating dye', Phenol red, Neutral red, or Cresol red is recommended for a final concentration of 0.1mM in a reaction.

2. Reaction Condition

Incubate at 65°C for 20~40 minutes.

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

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PSLMP100	HelixAmp™ pH-Sensing LAMP	100rxns
PSLMP500	HelixAmp™ pH-Sensing LAMP	500rxns