LAMP Colorimetric Master Mix (Lyophilized beads)

Cat.No.:HYB312

Product Description

This product contains reaction buffer, Bst DNA polymerase, Lyoprotectant and color dye components. The reaction buffer contains Mg^{2+}, dNTP and other amplification essential components. The product is a lyophilized beads formulation, and only primers and templates need to be added when used. This product is a red-yellow color change reaction. After the amplification is completed, the positive result is yellow and the negative result is red. The reaction results can be interpreted by naked eye observation. This reagent has high amplification efficiency and sensitivity.

Components

Components	96T	960T	9600T
LAMP Colorimetric Master Mix (Lyophilized beads）	8 T/strip×12	8 T/strip×120	8 T/strip×1200

Storage

Store at 2-8℃， valid for 12 months.

Instructions

1. Take out the corresponding number of lyophilized beads according to the number of tests.
2. Prepare the reaction system

Components	Volume
LAMP Colorimetric Master Mix (Lyophilized beads)	One piece
10×Primer Mix*	5 μL
Template DNA**	Up to 50 μL

*10× Primer Mix: 16 μM FIP/BIP, 2 μM F3/B3, 4 μM Loop F/B.

**It is recommended to dissolve the nucleic acid template in DEPC water.

3. Incubate at 65°C for 30-45 minutes. The reaction time can be appropriately extended according to the color change.
4. Observe the results with the naked eye. Yellow is positive and red is negative.

Notes

1. The reaction temperature can be optimized between 62℃-68℃ according to the primer situation;
2. The reagents after aliquoting should be avoided from being exposed to the air for a long time;
3. The red-yellow color change reaction depends on the pH change of the reaction system. Please do not use the nucleic acid storage solution containing Tris. It is recommended to use nucleic acids stored in ddH_2O;
4. The experiment should be operated in a standardized manner, including the preparation of the reaction system, sample processing and sample addition;
5. To avoid contamination, it is recommended to prepare the reaction system in a clean bench and add the template in the fume hood in other rooms to avoid false positive interference.
6. For research use only.