RT-LAMP Colorimetric Master Mix (Lyophilized beads)

Cat.No.:HYB412

Product Description

This product contains reaction buffer, RT- Enzymes Mix (Bst DNA polymerase and heatresistant reverse transcriptase), lyophilized protectants and chromogenic dye components. The product is freeze-dried ball type, using only with primers and templates. This kit provides a fast, clear visual detection of amplification, which negative reaction is indicated in red and positive reaction is indicated by a change to yellow.

Components

Components	96 T	960 T	9600 T
RT-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 Lyophilized beads powder according to the number of tests.
2. Prepare reaction mix

Components	Volume
RT-LAMP Colorimetric Master Mix (Lyophilized beads)	one piece (2 beads)
10×Primer Mix*	5 μL
Template DNA/RNA**	45 μL

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

**Nucleic acid templates are recommended to be dissolved using DEPC water.

3. Incubate at 65℃ for 30-45min, which can be extended appropriately according to color change Reaction time.
4. According to the naked eye, yellow was positive and red was 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.