



## RT-LAMP Dye Assay Kit (UDG plus)

### Product description

RT-LAMP Dye Assay Kit (UDG plus) contains Hieff™ Bst Plus DNA Polymerase and heat-resistant Hifair™ III Reverse Transcriptase, MRI and UDGs are applicable to LAMP reaction with RNA as template. This product contains UDG enzyme, which can effectively prevent the risk of aerosol pollution.

### Components

Components No.	Name	13762ES60 (100 T)	13762ES80 (1000 T)
13762-A	Bst Buffer	600 $\mu$ L	6 mL
13762-B	Bst Enzyme Mix (UDG plus)	100 $\mu$ L	1 mL

### Specifications

Detection method	Fluorescent dye method
PCR method	RT-LAMP
Polymerase	Hieff™ Bst Plus DNA Polymerase
Type of sample	RNA
LOD	50 copies/T
Specificity	100%

### Shipping and Storage

#### 1. Shipping

The product is shipped with dry ice.

#### 2. Storage

Part 1: 13762-A should be protected from light and can be stored at  $-20^{\circ}$  C for 6 months.

Part 2: 13762-B can be stored at  $-20^{\circ}$  C for 6 months.

### Instructions

#### 1. Reaction System

Components	Size ( $\mu$ L)
RNase free ddH <sub>2</sub> O	to 25
Bst Buffer	6
10 $\times$ Primers	2.5
Bst Enzyme Mix (UDG plus)	1
Template	10 ng-1 $\mu$ g

[Note]: a. Bst Buffer contains dN (U) TP and SYTO-9, and 1  $\times$  Bst Buffer already contains 8 mmol/L Mg<sup>2+</sup>;

b. Bst Enzyme Mix (UDG plus) includes UDGs and Hifair™ III Reverse Transcriptase, Bst II Polymerase, MRI.



c. 10 × Primers recommended primer group: 16 μ M FIP/BIP, 2 μ M F3/B3, 4 μ M Loop F/Loop B; The proportion of other best primer groups can be tested.

## 2. Amplification Protocol

Temperature	Time	Functions
25–37° C	2–5 min	Degradation of template containing U
60–65° C	30 min	isothermal amplification
85° C	5 min	Inactivation

## Notes

1. For your safety and health, please wear lab coats and disposable gloves for operation.