

INSTRUCTIONS FOR USE

Product Name: Reverse Transcriptase, High-Yield, Fast, and Thermostable, Glycerol-Free (600 U/μL)
Catalog # RTH05-E29B

Step 1. In an RNase free centrifuge tube add the following reaction components on ice:

2.5 μL	10× Bst Buffer
2 μL	100 mM MgSO ₄
3.5 μL	dNTP Mix (100 mM)
0.35 μL	dUTP Mix (100 mM) (Optional)
0.1 μL	Reverse Transcriptase (600 U/ul)
0.2 μL	Murine RNase Inhibitor (200 U/μL, Glycerol-free)
0.005 μL	Heat Labile UDG (200 U/μL) (Optional)
2 μL	10× Primers
0.5 μL	Bst II Plus DNA Polymerase (120 U/μL, Glycerol-free)
Up to 13 μL	RNase Free ddH ₂ O

- 10x Primers: 16 μM FIP/BIP, 2 μM F3/B3, 4 μM Loop F/B each; the ratios of primers can be optimized.

Step 2. Run the following thermal cycling settings:

37°C	2 min
65°C	30-60 min
85°C	10 min

- The primers of the probe method can directly select the target channel to collect fluorescence and collect fluorescence once every 1 minute.
- For the dye method, you can add additional dye with catalog number 13841ES, select SYBR as the channel, and collect fluorescence once every 1 minute.