Primerdesign

Precision™

Reverse Transcription Premix 2

Reverse transcription using pre mixed components

Contents

Introduction

Reverse transcription premix 2 kits contain all of the components necessary for cDNA synthesis in a single reaction buffer. Simply dispense the premix into your preferred plasticware, add RNA and incubate at 42°C.

The final reaction volume can be varied without changing the efficiency of the RT reaction. The amount of RNA in each reaction can therefore be kept constant between samples without having to dilute all RNA samples to a single concentration.

The premix contains an optimised blend of random nonamer primers and oligo dT to give complete RT coverage of all RNA species. If you require an alternative priming strategy then our Precision RT nanoscript 2 kit provides the perfect alternative solution for your project.

Kit Contents

- **2 X 500µl RT premix 2 (PURPLE)**

Recommended Accompanying Products

- **RT negative control premix (complete mix lacking the RT enzyme)**

Reagents and Equipment to Be Supplied by User

- **Pipettes and Tips**
- **Water bath or thermal heating block**

Kit Storage

The Primerdesign Precision Reverse Transcription premix 2 kit must be stored at -20ºC and is stable for 6 months from date of purchase. It is not recommended to freeze/thaw the mix more than 10 times.

Suitable Sample Material

This product is designed to work on RNA extracted from any source and is compatible with the elution buffer of all leading extraction kits. The kit is also suitable for RNA that has been eluted in water.

Licensing Agreement and Limitations of Use

This product is sold for Research Use Only. Purchase of Primerdesign kits does not include or provide licence with respect to any patents owned by any other parties.

Primerdesign Ltd Satisfaction Guarantee

Primerdesign takes pride in the quality of all of our products. Should this product fail to perform satisfactorily when used according to the protocols in this manual, Primerdesign will replace the item free of charge.

Quality Control

As part of our routine quality assurance programme, all Primerdesign products are monitored to ensure the highest levels of performance and reliability. All of our processes and procedures are regulated by and based on our ISO9001:2008 and ISO13485 accredited quality management system.

Bench-side Protocol

1. **Dispense 20µl of RT premix 2 into thin-wall reaction tubes**

2. **Add between 1 and 9µl of RNA to each tube**
   The final reaction volume can be varied without affecting the efficiency of the RT reaction. This product is recommended for 1ng to 2µg per sample and a final reaction volume between 20µl - 30µl. Seal the tube before incubation.

3. **Incubate at 42°C for 20 minutes (reverse transcription)**

4. **Incubate at 72°C for 10 minutes (heat inactivation – optional)**
   As most real-time PCR protocols begin with a 95°C "Hot Start" incubation, this heat inactivation step is optional.

5. **Store resultant cDNA at -20°C**