

## LEADSPHERE® One-Step RT-PCR Master Mix

**Catalog Number** LDG0027RF

**Package** bulk

For full product information, images and publications, please visit [our website](#).



### Overview

#### Description

Essential components for reliable RT-PCR are included in each single LEADSPHERE® One-Step RT-PCR Master Mix, which saves time for reaction set-up and reduces the risk of contamination and pipetting errors. In addition, the stabilized format facilitates shipment and storage without cooling. LEADSPHERE™ One-Step RT-PCR Master Mix includes reverse transcriptase, DNA polymerase, high-quality dNTPs, and optimized PCR buffer. This product is suitable for probe-based detection and endpoint DNA amplification. The reaction can be set up by reconstituting the LEADSPHERE™ One-Step RT-PCR Master Mix by adding PCR-grade water along with the RNA template, primers, and probe to a total volume of 20 µL.

#### Product Note

- Primer/Probe concentration

Final concentrations of 400 nM (each primer) are suitable for most reactions. To obtain optimal condition, primer concentration can be titrated between 0.2-1 µM.

A final concentration of 200 nM (probe) is suitable for most reactions. To obtain optimal condition, probe concentration can be titrated between 0.1-0.3 µM.

- Annealing/Extension optimization

To obtain optimal condition, annealing/extension temperature can be adjusted between 55°C-65°C, annealing/extension time can be extended up to 60 sec.

- Target length

Appropriate amplicon length should be arranged between 80-200 bp

### Specifications

#### Application

Reverse transcription, RT-PCR, qPCR

#### Form

Lyophilized

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## Instruction

### Shipping

The product is shipped with polar packs. Upon receipt, store it immediately at -20°C or lower for long term storage.

### Stability & Storage

This product is stable after storage at:

- 4-30°C for 12 months under sterile conditions from date of receipt.

Keep dry.

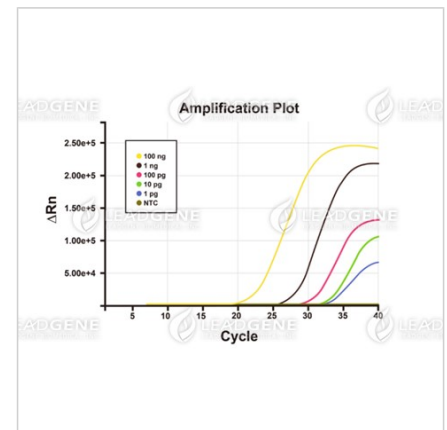
## Image



Lyophilized LEADSPHERE® One-Step RT-PCR Master Mix



Lyophilized LEADSPHERE® One-Step RT-PCR Master Mix



Amplification of input RNA template in RT-qPCR assay.

NTC: no template control

**Disclaimer** : For Research Use or Further Manufacturing Only.