MyTaq™ One-Step RT-PCR Kit

BIO-65048	N/A	25 Reactions
BIO-65049	N/A	100 Reactions
BIO-65047	N/A	10 Reactions

Features

- Extremely sensitive blend of RT and novel hot-start MyTaq
- Highly optimized for detection of low-copy genes
- Overcomes secondary structure in difficult and GC-rich targets
- High-quality, full-length cDNA from as little as 3pg of total RNA
- Simple to use all-in-one mix

Applications

- Gene-expression analysis
- Transcription analysis
- Gene cloning
- Multiplex RT-PCR

Description

MyTaq™ One-Step RT-PCR Kit has been designed for extremely sensitive and highly reproducible first-strand cDNA synthesis and subsequent PCR in a single tube (fig. 1), from either total RNA or mRNA using gene-specific primers. The kit contains the latest advances in buffer chemistry, including Bioline´s ultra-pure dNTPs, together with reverse transcriptase (RT) and our new generation of very high performance, antibody-mediated hot-start DNA polymerase (MyTaq HS). This ensures that MyTaq One-Step RT-PCR Kit produces fast, highly-specific and ultrasensitive products for downstream applications.

MyTaq One-Step Kit consists of reverse transcriptase, 2x MyTaq HS Mix and a potent RNase Inhibitor, RiboSafe, that are added together to create a simple to use all-in-one mix.

The kit is ideal for determining the presence or absence of RNA templates and quantifying expression through qualitative, semi-quantitative or quantitative analysis of RNA transcription levels, and the one-step format is also perfect for the synthesis of double-stranded cDNA products for subsequent gene-expression analysis.

The cDNA can be synthesised with starting amounts of RNA template from 3pg to 1µg, over a broad temperature range (up to 50°C (fig. 2) to overcome secondary structure and GC-rich sequences), prior to heating to 95°C to inactivate reverse transcriptase and simultaneously to activate the MyTaq™ HS.

Storage Conditions

The MyTaq One-Step RT-PCR Kit can be stored for 6 months at -20°C.

Shipping Conditions

On Dry Ice or Blue Ice