



# DATA SHEET

## Tetro cDNA Synthesis Kit

BIO-65042  
BIO-65043

30 Reactions  
100 Reactions

### Features

- High-quality, full length cDNA from as little as 100pg of total RNA
- Ultra-stable reverse transcriptase for long genes and rare transcripts
- Simple one-tube, one-step set-up for highly sensitive RT-PCR
- Broad dynamic range: 100pg to 2µg of RNA

### Applications

- 1st strand cDNA synthesis for real-time PCR
- Construction of cDNA libraries
- 2-step RT-PCR assays
- Generation of probes for hybridization
- Gene cloning

### Description

The Tetro cDNA Synthesis Kit contains our highly sensitive MMLV reverse transcriptase, oligo (dT)18 and random hexamer primers together with control RNA template and all the necessary components to generate high quality cDNA from RNA templates (Fig. 1). The first-strand cDNA generated is ideal for real-time PCR (Fig. 2) and can be used in a variety of other applications, such as qualitative and quantitative analyses of cellular RNAs, characterization of RNA splice variants, and the generation and cloning of cDNA.

The Tetro cDNA Synthesis Kit is optimized for RT reactions over a wide range of total RNA concentrations (100pg-2µg), such that long and low-abundance cDNAs can be detected by amplification after cDNA synthesis. The kit contains oligo (dT)18 and random hexamer primers together with control RNA template. The kit components are fully optimized to generate maximum yields of full-length cDNA.

### Storage Conditions

Tetro cDNA Synthesis Kit can be stored for 12 months at -20°C.

### Shipping Conditions

On Dry Ice or Blue Ice

### Product Citations

1. Passante, E., et al., *Immunol. Res.* 58(9), 611-618 (2009).
2. Giordani, L., et al., *J. Leukocyte Biol.* 86, 261-271 (2009).
3. Davies, V.J. *Brain* 131(2), 368-380 (2008).
4. Alonso-Gonzalez, C., et al. *Toxicol. Lett.* 181(3), 190-195 (2008).
5. To, K.W., et al., *Mol. Cell Biol.* 28(17), 5147-5161 (2008).
6. Zhou, C.C., et al., *Circul. Res.* 100(1), 88-95 (2007).
7. González, A., et al., *Brit. J. Can.* 97(6), 755-760 (2007).