

Titanium® One-Step RT-PCR Kit

Catalog Nos.	Amount	Lot Number
639503	30 rxn	Specified on product label.
639504	100 rxn	Specified on product label.

Description

The Titanium One-Step RT-PCR Kit is designed for the reverse transcription of total or poly A⁺ RNA and the subsequent PCR amplification of a target cDNA in a single reaction tube. The included enzyme mix contains a highly purified Moloney murine leukemia virus (MMLV) reverse transcriptase for first-strand cDNA synthesis, and Titanium *Taq* DNA Polymerase for PCR amplification. Titanium *Taq* DNA Polymerase is a blend of a 5'-exonuclease deficient, thermostable DNA polymerase, and TaqStart® Antibody for automatic hot start PCR. Reagents for purifying RNA are not supplied.

Package Contents

Box 1:

<u>639503</u> (30 rxns)	<u>639504</u> (100 rxns)	
30 µg	100 µg	Control Mouse Liver Total RNA (1 µg/µl)

Box 2:

<u>639503</u> (30 rxns)	<u>639504</u> (100 rxns)	
30 µl	100 µl	50X Titanium <i>Taq</i> RT Enzyme Mix
150 µl	500 µl	10X One-Step Buffer
30 µl	100 µl	50X dNTP Mix (10 mM each)
750 µl	2 x 1.4 ml	Thermostabilizing Reagent
300 µl	1 ml	GC-Melt
30 µl	100 µl	Oligo(dT) Primer (20 µM)
15 µl	50 µl	Recombinant RNase Inhibitor (40 U/µl)
30 µl	100 µl	Control Mouse β-Actin Primer Mix (45 µM each)
1.5 ml	2 x 1.5 ml	RNase-Free H ₂ O

Storage Conditions

- Store Box 1 (RNA) at –70°C
- Store Box 2 at –20°C

NOTE: At times, precipitate may be observed in the GC-Melt. This precipitate does not affect the performance of the kit. The precipitate can be dissolved rapidly by mixing at room temperature or warming at 37°C for a few minutes.

Shelf Life

- 1 year from date of receipt under proper storage conditions.

Takara Bio USA, Inc.

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Certificate of Analysis

Cat. Nos. 639503, 639504

Titanium One-Step RT-PCR Kit

Shipping Conditions

- Dry ice (−70°C)

Product Documents

Documents for our products are available for download at takarabio.com/manuals

The following documents apply to this product:

- Titanium One-Step RT-PCR Kit User Manual (PT3397-1)
- Titanium One-Step RT-PCR Kit Protocol-at-a-Glance (PT3397-2)

Quality Control Data

A sample kit was tested according to the User Manual to ensure the quality and performance of each lot of Titanium One-Step RT-PCR Kits. A fragment of the mouse β -actin cDNA was amplified using the Control Mouse Liver Total RNA and the Control Mouse β -Actin Primers using 0.1 or 1 μ g of RNA. Following 25 cycles of PCR, samples were analyzed on an agarose/EtBr gel. The samples produced bands with the expected intensities compared to a precision molecular mass standard.

It is certified that this product meets the above specifications, as reviewed and approved by the Quality Department.

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NOTICE TO PURCHASER:

Our products are to be used for research purposes only. They may not be used for any other purpose, including, but not limited to, use in drugs, in vitro diagnostic purposes, therapeutics, or in humans. Our products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products or to provide a service to third parties without prior written approval of Takara Bio USA, Inc.

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