

Titanium® *Taq* SP DNA Polymerase

Catalog No.
639292

Amount
100 rxns

Lot Number
Specified on product label.

Description

Titanium *Taq* DNA Polymerase is a mixture containing a 5' to 3' exonuclease-deficient *Taq* polymerase and TaqStart® Antibody, a monoclonal antibody that inhibits *Taq* and *Taq*-derived polymerases at ambient temperatures. The presence of TaqStart Antibody in the polymerase mix allows automatic hot start PCR.

Package Contents

- 100 µl 50X Titanium *Taq* SP DNA Polymerase
- 600 µl 10X Titanium *Taq* SP PCR Buffer

Storage Conditions

- Store at -20°C

Shelf Life

- 1 year from date of receipt under proper storage conditions

Shipping Conditions

- Dry ice (-70°C)

Quality Control Data

Raw-Material Quality Control

Purified Titanium *Taq* DNA Polymerase was tested for enzymatic activity and PCR performance. Endonuclease, exonuclease, and DNA contamination assays were also performed.

Functional Quality Control

Amplification from a cDNA template:

Titanium *Taq* was tested in a 50 µl PCR reaction using 5 µl of Marathon®-Ready Human Placenta cDNA (Cat. No. 639311) as template, and primers (0.2 µM each) specific for a 1.3 kb fragment from the transferrin receptor gene. Cycling conditions were set at:

1 cycle	95°C for 1 min
30 cycles	95°C for 15 sec
	68°C for 1.5 min

5 µl of the PCR product was run on a 1.2% TAE/agarose gel to confirm the presence of a 1.3 kb product with minimal background.

Takara Bio USA, Inc.

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Certificate of Analysis

Cat. No. 639292

Titanium® *Taq* SP DNA Polymerase

Amplification from a genomic DNA template

Titanium *Taq* was tested in a 50 µl PCR reaction using 100 ng of calf thymus genomic DNA as template, and primers (0.4 µM each) specific for a 407 bp fragment of the bovine pancreatic trypsin inhibitor (BPTI) gene. Cycling conditions were set at:

1 cycle	94°C for 3 min
30 cycles	94°C for 30 sec
	68°C for 1.5 min

5 µl of PCR product was run on a 1.2% TAE/agarose gel to confirm the presence of a 407 bp product with minimal background.

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: General Purpose Reagent

This product is intended For Laboratory Use. Outside of the United States, this product is intended for research use only unless otherwise stated. This product is not intended for a specific application or made for any clinical use. The performance characteristics of this product have not been fully established. It is the user's responsibility to validate the performance of the product, and any component thereof, for any particular use. Resale or transfer of this product, any component thereof, or any substance produced through use of this product, or any component thereof, to any third party is expressly forbidden. To obtain additional rights, please contact BD_OEM@takarabio.com.

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