

## 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.

### Expiration Date

- Specified on product label.

### Shipping Conditions

- Dry ice

### 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 (Takara Bio, 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 as follows:

95°C	1 min	
30 cycles:		
95°C	15 sec	}
68°C	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.

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#### Takara Bio USA, Inc.

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# Certificate of Analysis

Cat. No. 639292

Titanium *Taq* SP DNA Polymerase

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## **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 as follows:

94°C	3 min
30 cycles:	
94°C	30 sec
68°C	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.

## Titanium® Taq SP DNA Polymerase

### CATALOG NO.

639292

### NOTICE TO PURCHASER: General Purpose Reagent

This product is a general purpose reagent 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 particular 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 your local office or go to our website for additional information.

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