

50X Titanium® *Taq* SP (Glycerol-Free)

Catalog No.
638517

Amount
250 µl

Lot Number
Specified on product label.

Description

Titanium *Taq* SP (Glycerol-Free) 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. Enough enzyme and buffer are supplied for 250 reactions of 50 µl each.

Package Contents

- 250 µl 50X Titanium *Taq* SP (Glycerol-Free)
- 1.5 ml 10X Titanium *Taq* PCR Buffer

Storage Conditions

- Aliquot on arrival and store at -70°C.

Shelf Life

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

Storage Buffer

- 15 mM Tris-HCl, 0.05 mM EDTA, 75 mM KCl, 0.5% P

Shipping Conditions

- Dry ice (-70°C)

Product Documents

Documents for Clontech® products are available for download at www.clontech.com/manuals
The following documents apply to this product:

- Titanium *Taq* SP DNA Polymerase Protocol-At-A-Glance

Quality Control Data

Raw-Material Quality Control

Purified Titanium *Taq* SP (Glycerol-Free) 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* SP (Glycerol-Free) 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:

Clontech Laboratories, Inc.

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Certificate of Analysis

Cat. No. 638517

50X Titanium Taq SP (Glycerol-Free)

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. PCR product concentration was measured by fluorometry. The yield was determined to be >5 ng/µl.

Amplification from a genomic DNA template

Titanium *Taq* SP (Glycerol-Free) 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. PCR product concentration was measured by fluorometry. The yield was determined to be >15 ng/µl.

50X Titanium® Taq SP (Glycerol-Free)

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