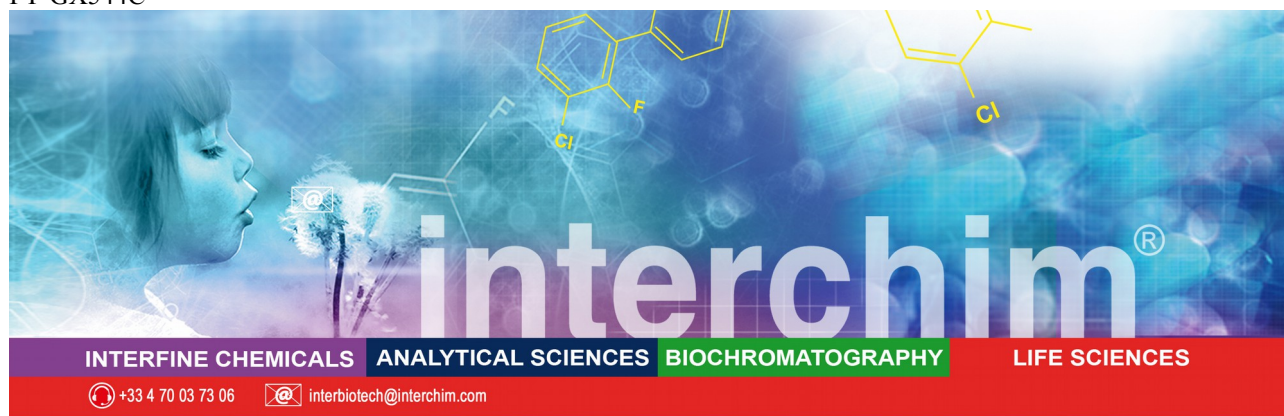


FT-GX544C



Taq DNA Polymerase

Product Description

- Catalog #:** GX544C, 10000U
Name : **Taq DNA Polymerase, 5U/μl**
 - high-sensitivity
 - high amplification efficiency
- Unit definition :** One unit of Platinum Taq DNA Polymerase High Fidelity incorporates 10 nmol of deoxyribonucleotide into acid-precipitable material in 30 minutes at 74°C.
- Quality Control :** This product has passed the following quality control assays: functional absence of double- and single-stranded endonuclease activity; >90% homogeneous by SDS gel electrophoresis. Each lot of EasyTaq DNA Polymerase is assayed for amplification from as little as 10 ng of human genomic DNA
- Storage Buffer :** 20 mM Tris-HCl (pH 8.0), 0.1 mM EDTA, 1 mM DTT, 100 mM KCl, Stabilizers, 50% glycerol.
- 10X PCR reaction Buffer :** 500 mM KCl, 100 mM Tris-Cl (pH 8.5 at 25°C), 1% Triton X-100, 15 mM MgCl₂
- Storage :** -20°C
 For Research Use Only

Introduction

Taq DNA polymerase is isolated from the *E. coli* cloning *Thermus aquaticus*. The molecular weight of the product is approximately 94 kDa. EasyTaq DNA polymerase has the 5' to 3' DNA polymerase activity and 5' to 3' exonuclease activity without 3'-5' exonuclease activity. The extending speed is 1-2 kb/min. There is an "A" on 3' end. The PCR product can be cloned in TA vector.

Technical and Scientific Information

Reaction Mixture Set Up

<u>Component</u>	<u>Volume</u>	<u>Final Concentration</u>
Template DNA <0.5 ug	as required	
Forward Primer (10 μM)	1 μl	0.2-0.4 μM each
Reverse Primer (10 μM)	1 μl	0.2-0.4 μM each
10×PCR reaction Buffer	5 μl	1×
2.5 mM dNTPs	4 μl	0.2 mM
Taq DNA polymerase	0.5 μl	2.5 unit
ddH ₂ O to final volume	50 μl	Not applicable



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Recommended thermal cycling conditions

94°C	2-5 min	
94°C	30 sec	
50-60°C	30 sec	30-35 cycles
72°C	1-2 kb/min	
72°C	5-10 min	

Ordering information

Catalog size quantities and prices may be found at <http://www.interchim.com>.
Please inquire for higher quantities (availability, shipment conditions).

Please contact InterBioTech – Interchim for any other information
Hotline : +33(0)4 70 03 73 06 – Interbiotech@interchim.com

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