Datasheet for ABIN1536547

Taq DNA Polymerase

1 Image | 103 Publications

Overview

Quantity:	1000 U
Species:	Thermus aquaticus
Application:	Polymerase Chain Reaction (PCR)

Product Details

Characteristics:	Taq DNA Polymerase is a thermostable DNA Polymerase isolated from an E. coli strain that carries the Taq DNA polymerase gene. Taq DNA Polymerase is the most common polymerase used for PCR.

Application Details

Application Notes:	The applications of Taq DNA Polymerase include the following: PCR 3' A-tailing of blunt ends Primer extension DNA sequencing.
Comment:	Terminal transferase activity: Taq DNA Polymerase has terminal transferase activity, which results in the addition of a single nucleotide (adenosine) at the 3' end of the extension product. High purity: No contamination activity has been detected in standard test reactions. Terminal Transferase Activity: A single nucleotide (adenosine) is added to the 3' end of the extension product. High-purity: No contamination activity has been detected in standard test reactions. Unit Definition: one unit is defined as the amount of enzyme that can incorporate 10 nmol of dNTP into acid-insoluble material in 30 minutes at 74°C.
Restrictions:	For Research Use only

Handling

Format:	Liquid

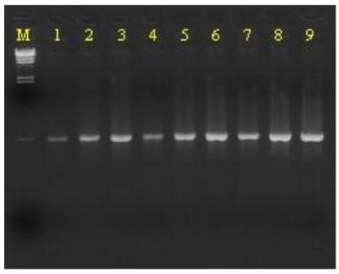
Handling

Buffer:	500 mM KCl, 100 mM Tris HCl (pH 9.0 at 25°C), 15 mM MgCl2, 1% Triton X-100 Buffer. This buffer is optimized for use with 200 µM dNTPs. Note: If the reaction is performed without this buffer, then add 0.1% Triton X-100 (final concentration) to ensure high activity. Concentration: Taq is delivered in 5 units/µl in 20 mM Tris HCl (pH 8.0), 0.1 mM EDTA, 1 mM DTT, 0.1% Triton X-100 and 50% glycerol.
Storage:	-20 °C
Storage Comment:	Store the product at -20°C. The enzyme can be shipped at room temperature or even 37°C for seven days without any loss of activity.

Publications

Product cited in:	Johnson, Drugan, Miller, Evans: "38" in: , Vol. 1363, Issue Nucleic acids research, pp. 28-39, (1991)

Images



Lane	Taq	Unit
1		0.1
2	Competitor A	0.25
3		0.5
4		0.1
5	Competitor B	0.25
6		0.5
7		0.1
8	ABIN1536547	0.25
9		0.5

Agarose Gel Electrophoresis

Image 1.