

Datasheet for ABIN3188235 Phi29 DNA Polymerase

Overview

Quantity:	1000 U
Application:	DNA Amplification (DNA Amp)

Product Details

Characteristics: Phi29 DNA Polymerase is a highly processive polymerase which exhibits a strong strand-displacement function. These functions allow for highly efficient isothermal amplification of circular or linear DNA templates via rolling circle amplification (RCA), multiple displacement amplification (MDA) and/or whole genome amplification (WGA). Phi29 DNA Polymerase has extremely high fidelity due to its inherent 3'→5' *exonuclease activity and can amplify from very small amounts of starting templates.*

Components: Enzyme supplied with 5X Reaction Buffer

Unit Definition: One unit is defined as the amount of Phi29 DNA Polymerase that is required to incorporate 0.5 pmol of dNTP into acid insoluble material in 10 minutes at 30°C.

Application Details

Comment:

- Rolling circle amplification (RCA)
- Multiple displacement amplification (MDA)
- Whole genome amplification (WGA)
- DNA template preparation for sequencing
- Proteinprimed DNA amplification

Restrictions: For Research Use only

Handling

Concentration: 10 U/μL

Buffer: 50 mM Tris-HCl (pH 7.5), 0.1 mM EDTA, 1 mM DTT, 100 mM NaCl, 0.5 % Tween-20, 0.5 % NP-40 and 50 % (v/v) Glycerol.

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Handling

Storage: -20 °C

Publications

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