

phi29 DNA Polymerase

CERTIFICATE OF ANALYSIS

#EN20 phi29 DNA Polymerase
Concentration: 10 U/ μ l
Components: phi29 DNA Polymerase, LOT: IAE805874
10x phi29 Reaction Buffer, LOT: IAB805874
Expiry Date: 10.2020
Store at: -20^oC

Description: phi29 DNA Polymerase is a highly processive recombinant polymerase with exceptional strand displacement activity, that allows a very efficient isothermal DNA amplification.

QUALITY CONTROL

Polymerization activity test:

Polymerization activity is tested in RCA reaction with different amounts of enzyme.

Result: PASS

Exonuclease activity test:

3'-5' exonuclease activity is tested by incubation of polymerase phi29 with linear oligonucleotides.

Result: PASS

DNase contamination: Free of detectable exonuclease and endonuclease activities as judged by gel electrophoresis following incubation of 1 μ g of DNA with 10 U of enzyme for 4 h at 37^oC.

Result: PASS

Protein Purity Assay (SDS-PAGE):

phi29 DNA Polymerase is \geq 98% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.

Result: PASS

Quality authorized by: Justyna Leibner-Ciszak **Date:** 25.03.2019

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