

# phi29 DNA Polymerase

## CERTIFICATE OF ANALYSIS

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**#EN20** phi29 DNA Polymerase  
**Concentration:** 10 U/ $\mu$ l  
**Components:** phi29 DNA Polymerase, LOT: IAE846574  
10x phi29 Reaction Buffer, LOT: IAB846574

**Batch Number:** IAZ846574  
**Expiry Date:** 10.2021  
**Store at:** -20°C

**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

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### 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  $\mu$ g of DNA with 10 U of enzyme for 4 h at 37°C.

**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:** 30.10.2019

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