

# Phi29

## DNA Polymerase

### CERTIFICATE OF ANALYSIS

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<b>Product</b>	<i>phi29</i> DNA Polymerase
<b>Quantity:</b>	100 U, 1000 U, 5000 U
<b>Components:</b>	<i>phi29</i> DNA Polymerase Lot. 726672 10x <i>phi29</i> Reaction Buffer Lot. 846672
<b>Batch Number:</b>	726672
<b>Expiry Date:</b>	11.2018
<b>Concentration:</b>	10 U/ $\mu$ l
<b>Store at:</b>	-20°C
<b>Shipping conditions:</b>	Shipping on dry ice
<b>Supplied in:</b>	50 mM Tris-HCl (pH 7.5 at 25°C), 100 mM KCl, 0.1 mM EDTA, 1 mM DTT, 0.5% (v/v) Nonident P40, 0.5% (v/v) Tween 20, 50% (v/v) glycerol
<b>Specification:</b>	<i>phi29</i> DNA Polymerase is a highly processive recombinant polymerase with exceptional strand displacement activity, which allows for highly efficient isothermal DNA amplification. The enzyme is capable of up to 70 thousands base insertions per binding event. The polymerase also possesses a 3'-5' proofreading exonuclease activity acting preferentially on ssDNA or RNA. Therefore 3'-modified primers are recommended.

### QUALITY CONTROL

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All components are functionally tested in RCA assays using padlock probes and random hexamers (strand displacement, DNA polymerization and 3'-5' exonuclease activities).

Quality authorized by: Justyna Leibner-Ciszak                      Date: 11.01.2018

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