



## PRECISION ENZYMES TO FUEL CUTTING-EDGE APPLICATIONS

**phi29 DNA Polymerase** exhibits strong strand displacement activity and high processivity to enable efficient isothermal DNA amplification from low DNA template amounts. Additionally, its 3' → 5' exonuclease activity delivers high fidelity amplification, making it an appropriate solution for sequencing DNA template preparation.

### HIGHLIGHTS

- **Strong strand displacement activity** facilitates isothermal amplification
- Strong processivity delivers **products up to 70 kb in length**
- **High-fidelity amplification** supports DNA template preparation for sequencing
- Custom formats available, including **high concentration**
- Highly stringent enzyme production ensures **quality performance across lots**

### SPECIFICATIONS

- Protein Purity Assay: ≥99%
- Exonuclease Assay: Functional
- Specific Activity: 100,000 – 190,000 U/mg
- DNA Contamination Assay (*E. coli*, mammalian, library)\*: <10 copies
- Phosphatase Contamination Assay\*: <1% released
- Endonuclease: Contamination Assay\*: Not detectable

\*As assessed using 1,000 U of enzyme input per assay

### ADVANTAGES OF PARTNERING WITH WATCHMAKER

- All products are developed and manufactured within an ISO 13485:2016-certified QMS
- Guaranteed minimum shelf-life
- Single-lot shipments
- Flexible terms designed with both start-up and large organization needs in mind

### APPLICATIONS

- Multiple displacement amplification (MDA)
- Rolling circle amplification (RCA)
- Whole genome amplification (WGA)
- Cell-free cloning
- Preparation of DNA template for sequencing

CUSTOMIZATION MADE EASY

We aim to make the customization process as painless as possible for our OEM partners. We view ourselves as an extension of your team and offer a variety of tailored services.



**Custom fills and formats**  
minimize waste and maximize your efficiency



**Tailored packaging and labeling** — including private label — designed to your unique specifications



**White glove support** and a dedicated project manager make customization seamless



**Streamlined processes and flexible terms** enable fast turnaround times and serve organizations of all sizes

PRODUCT	0.25 KU	1 KU
phi29 DNA Polymerase Kit (10 U/μL) <sup>1</sup> <i>Incl. 10X phi29 Pol Reaction buffer</i>	7K0104-25UL	7K0104-100UL

PRODUCT	5 KU	100 KU	500 KU
phi29 DNA Polymerase Kit (100 U/μL) <sup>1</sup>	3K0106-50UL	3K0106-1000UL	3K0106-5000UL

<sup>1</sup>A unit is defined as the amount of enzyme required to convert 50 pmol of dNTPs into a polynucleotide fraction in 10 minutes at 30°C.



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