

## 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

For research use only. Not for use in diagnostic procedures.

### 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



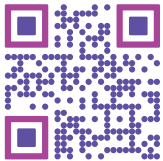
**Streamlined processes and flexible terms** enable fast turnaround times and serve organizations of all sizes

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.



Contact [sales@watchmakergenomics.com](mailto:sales@watchmakergenomics.com)  
or visit [watchmakergenomics.com/phi29](https://watchmakergenomics.com/phi29) to learn more.

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