

# GspM3.0 DNA Polymerase

For research purposes only. Not for use in diagnostic procedures for clinical purposes. FOR *IN VITRO* USE ONLY

<b>Cat. No.</b>	<b>GSPM3-002</b>	<b>8000u</b>
<b>Cat. No.</b>	<b>GSPM3-003</b>	<b>40000u</b>

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## Product Description

A recombinant *in silico* engineered large fragment DNA polymerase from *Geobacillus species* M expressed in *E.coli*.

**Applications:** This enzyme is designed for use in isothermal DNA amplification.

**Stability:** The undiluted enzyme mix is stable when stored at -20°C in a constant temperature freezer.

## Supplied Reagents:

Enzyme @ 8u/μl

10x Buffer (500mM Tris-HCl (pH 8.1 @ 25°C), 300mM KCl, 300mM (NH<sub>4</sub>)<sub>2</sub>SO<sub>4</sub> and 1% Triton X-100)

5M Betaine

50mM MgSO<sub>4</sub>·7H<sub>2</sub>O

**Storage Buffer:** 10mM Tris-HCl (pH 7.5), 50mM KCl, 0.1mM EDTA, 1mM DTT, 0.1% Triton-X-100 (v/v) and 50% glycerol.

**Quality Control:** Each lot is tested for activity in an Isothermal DNA amplification reaction.

For maximal activity and specificity in an isothermal amplification reaction we advise using Betaine at a final concentration of 1M.

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**OptiGene Ltd.**