

# Tin exo- 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>TIN-001</b>	<b>5000u</b>
<b>Cat. No.</b>	<b>TIN-002</b>	<b>25000u</b>

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## Product Description

A patented recombinant, large fragment 3'-5'exonuclease minus DNA polymerase from *Thermodesulfotator indicus* 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 (300mM Tris-HCl (pH 8.8 @ 25°C), 300mM KCl, 100mM (NH<sub>4</sub>)<sub>2</sub>SO<sub>4</sub> and

1% Triton X-100)

50mM MgSO<sub>4</sub>·7H<sub>2</sub>O

**Storage Buffer:** 50mM Tris-HCl (pH 8.3), 100mM KCl, 0.1mM EDTA, 1mM DTT, 0.5% Nonidet® P40 (v/v), 0.5% Tween® 20 (v/v) and 50% glycerol.

**Quality Control:** Each lot is tested for activity in an Isothermal DNA amplification reaction. We advise to use 4mM final Mg.

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

Nonidet® P40 is a registered trademark of Shell International Petroleum Company Limited, U.K.  
Tween® 20 is a registered trademark of ICI Americas Inc., Wilmington, USA.

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**OptiGene Ltd.**