

Data sheet

Green-Taq DNA polymerase

Cat. No: P0029
5x 100 reactions
Ready-to-use

Introduction

Green-Taq DNA polymerase is a ready-to-use 2x master mix that contains all PCR reaction components: dNTPs, PCR buffer, Mg²⁺ and **Taq DNA polymerase**. Only primers and template need to be added.

The mix also contains an agarose loading buffer including two tracking dyes (blue and yellow dye) for visual tracking of DNA migration and a dense compound to facilitate the drop-down of the samples into the well agarose gels. The blue dye (migrates with 3 to 5 kb DNA fragments in 1% agarose gel) and the yellow dye (migrates faster than 10 bp DNA fragments in 1% agarose gel).

Features

- Ready-to-use
- Adds extra nucleotides (preferentially adenine) without template at 3' ends leaving 3' overhangs PCR fragments. This fact allows the popular TA-cloning or GC cloning
- Both save times in the PCR process and in agarose loading samples.

Applications

- Design for medium or high throughput applications (e.g. colony screening)
- PCR fragments amplification for TA or GC cloning

Unit definition

One unit is defined as the amount of enzyme required to catalyse the incorporation of 10 nanomoles of dNTPs into acid-insoluble material in 30 minutes at 74°C.

Assay conditions

Enzyme activity is assayed in the following mixture: 25mM Tris-HCl pH 9.0 at 25°C, 50mM KCl, 2mM MgCl₂, 0.1mg/mL gelatine, 200 µM de dATP, dGTP, dTTP, 100µM[α32-P]dCTP (0.05µCi/nmol) and 12.5 µg activated salmon sperm DNA.

Concentration:

2X (Buffer Green 2X; dNTPs 0.4 mM each; Horse-Power Taq DNA polymerase 0.2 U/µL, Glycerol 24%).

Quality Certifications

- ✓ Functionally tested in PCR.
- ✓ Undetected bacterial DNA (by PCR).
- ✓ Undetectable nucleases activity (endo-, exo, and ribo-).

Storage: Store at -20°C.

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Recommended PCR assay (20 µl assay)

Green-Taq mix 2X	10µl (1X)
Forward Primer (15µM)	1µl (0.75 pmol/µL)
Reverse Primer (15µM)	1µl (0.75 pmol/µL)
Template DNA PCR grade H ₂ O	plasmide: 30-75ng; gDNA: 100-500ng up to 20 µl

Cycling instructions: 94°C 5:00, 25-30x (94°C 0:35, Tm 0:35, 72°C 1'/kb), 72°C 7:00, 4°C ∞)

PRODUCT USE LIMITATION

This product is developed, designed and sold exclusively for research purposes and in vitro use only. The product was not tested for use in diagnostics or for drug development, nor is it suitable for administration to humans or animals. Please refer to www.canvaxbiotech.com for Material Safety Data Sheet of the product.

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