

Product Information:

2x Green PCR Master-mix (Cat.: K2500G)**Storage: @-20°C**

The **2x Green PCR Master Mix** is a complete ready-to-use 2x PCR mixture containing everything (except a DNA template and primer set) needed for efficient amplification of a template DNA (up to 5 kb) in PCR, specifically optimized for efficient amplification of GC-rich and/or problematic templates by PCR.

The **2x Green PCR mixture** has an inert green tracking dye and gel loading precipitant already added. After thermal cycling, the PCR products can be loaded directly onto an agarose or polyacrylamide gels without the addition of loading dye. The inert green tracking dye migrates blue and yellow, at approximately 4kb and 50bp that help visualize the electrophoresis progress.

Suggested PCR Protocol:

I. Preparation of PCR Master Mix

for a single reaction (total volume: 25uL) in a 0.2mL tube.

Component	Volume (μL)	Final Concentration
2x Green PCR Mastermix	12.5	1x
Forward primer (10μM)	1	250nM
Reverse primer (10μM)	1	250nM
DNA Template	1-5	Determined by user
PCR grade water	up to 25 μL	

II. Setup typical thermal cycling parameters

Enzyme activation step:	95°C	3-5 minutes
25-40 cycles:		
Denaturation	95°C	30 seconds
Annealing	X°C	dependent on T _m of primers
Extension	72°C	30 seconds (1min per kb amplicon)
Hold at 4-8°C		

After thermal cycling, the PCR products can be loaded directly onto an agarose gel and run gels as usual.

Precautions and Disclaimer: This product and procedure described are intended for R&D use only. Purchase of this product does not convey a license to perform any patented process.

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