2X Long Range PCR DNA Polymerase Master Mix Blue

(2mM MgCl2)

Cat. No.: 180601-1

Size: 1.25 mL Storage:-20

General Description

Taq/Pfu DNA Polymerase Master Mix Blue is a ready-to-use 2.0x reaction mix, it is a enzyme mixture of Taq and pfu DNA polymerase, it provides more efficient amplification and higher fidelity than conventional Taq DNA polymerase under conventional PCR conditions. In optimized PCR, it can result in several folds increase in fidelity over Taq DNA polymerase alone.

The PCR product amplified with this mixture has one A added at 3'-end, so the product can be directly used for TA cloning. The mixture also contains xylene cyanol tracking dyes, allowing direct loading onto gel after PCR reaction.

Key Features

- · Processes>8kb with extremely high fidelity
- · Error rate 1.45 x10-6
- · Long Range enzyme and require an extension time of 1-2 min./kb.Elongation rate(45 bases/sec)

Composition of 2x Long Range PCR Master Mix Blue

150 mM Tris-HCl pH 8.5, 40 mM (NH4)2S04, 4.0 mM MgCl2, 0.2% Tween 20, 0.4 mM dNTPs

Taq and Pfu DNA polymerase with proper ratio

xylene cyanol tracking dyes and a stabilizer

Standard PCR Method:

For 20 or 50µl reaction:

Water	Xμl	Yμl
2X PCR Master Mix	25μl	10μ1
5-50μM forward primer	1µl	1µl
5-50μM reverse primer	1µl	1µl
* template DNA	10pg-1μg	10pg-1μg
Final volume	50 μl	20µl

^{*} The amount of DNA template varies according to complexity of its sequence. In the case of mammalian DNA, up to 1µg is used per reaction. Typical amount of yeast, bacterial, and plasmid DNAs used per reaction are 10ng, 1ng, and 10pg, respectively.

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