



Reddy[®] to use PCR master mix,2X

Cat. No.: MM2061

Store: -20°C

Quantity: 80 Reactions/25 µl

Shipment: Wet or dry Ice

Description: The SinaClon PCR Master offers convenient reagents for PCR amplifications. The reagent of Master Mix is an optimized ready-to-use 2X PCR mixture of *Taq DNA Polymerase* (recombinant), PCR buffer, MgCl₂ and dNTPs. Master Mix contains all components for PCR, except DNA template and primers. Additionally, sterile and PCR grade water is supplied. SinaClon PCR Master Kit is sufficient for 80 amplification reactions of 25µl volume each or 40 amplification reactions of 50µl volume.

Generated PCR products would have 3' single A-over-hang products and can be used for TA cloning.

Components (supplied):

Master Mix 1ml
Distilled Water 3 ml

Composition of PCR Master Mix (2X):

0.2 units/µl *Taq* DNA polymerase in reaction buffer, 3 mM MgCl₂, 0.4mM dATP, 0.4mM dCTP, 0.4mM dGTP and 0.4mM dTTP.

Stability: The kit is stable at -20°C until expiration date. Repeated freezing and thawing should be avoided.

General Protocol for DNA amplification:

The SinaClon PCR Master mix2X can be used for nearly all PCR applications. The only limitation is that the sample volume must not exceed half the total reaction volume. The optimal reaction conditions (incubation temperatures and times, concentration of template DNA and primer) depend on the template/primers system and must be determined individually.

All solutions should be thawed on ice, gently vortexed and briefly centrifuged. Add in a thin walled PCR tube on ice:

Component of a sample	For a total 50µl reaction volume		For a total 25µl reaction volume	
	Volume	Final concentration	Volume	Final concentration
Master Mix	25µl	1X	12.5µl	1X
Forward Primer	Variable	0.1-1µM	Variable	0.1-1µM
Reverse Primer	Variable	0.1-1µM	Variable	0.1-1µM
Template DNA	Variable	10pg-1µg	Variable	10pg-1µg
Sterile Deionized Water	to 50µl	-	To 25µl	-

Note: - annealing temperature depends on the melting temperature of the primer used.
- Elongation time and temperature depends on fragment length

For Research Use Only

SinaClonBioScience

www.sinaclon.com

Central Office:

No. 56, Azimi St., Nafisi Ave., Phase 1, Ekbatan, Tehran, Iran, 1393833161

Tel: +98(0)21 4463 0050-51

+98(0)21 4466 5156

Customer Service: +98(0)902 3120059

+98(0)21 4463 3016

Place your order: order@sinaclon.com

Sale Office : No. 16, Sayeh Building, Nafisi Ave., Phase 1, Ekbatan, Tehran, Iran
Tell : +9821 44661950 , +9821 44661903

www.sinaclon.com
www.sinaclon.ir
order@sinaclon.com