

SYBR® Green Real Time PCR Master Mix

Cat: C101021 (1 ml) Cat: C101022 (5 X 1 ml)

Store at -20 °C

Contents:

Component	C101021	C101022
SYBR® Green Master Mix (2X	() 1ml	5 x 1ml
50X ROX dye	50µl	5 x 50μl

Description:

2X SYBR® Green Real Time PCR Master Mix is a very sensitive and easy to use for real-time quantitative analysis of DNA and cDNA targets from various sources. This product is based on the SYBR Green I and a dual Hot-start *Taq* DNA polymerase (chemically modified and anti Taq) plus the preoptimized buffer solution.

Buffers and Reagents:

Storage Buffer: 20 mM Tris-HCl (pH 8.0), 100 mM KCl, 0.5 mM EDTA, 0.1 mM DTT, 0.5% Tween 20, 0.5% Nonidet P-40, 50% Glycerol 2X Master Mix (per 10 μ L): 1unit HS Prime Taq DNA Polymerase, 5 mM MgCl2, 2mM dNTPs mixture and 2X SYBR Green I

Kit storage:

This kit should be stored at -20 °C. Unnecessary repeated freeze/thawing should be avoided. Under these conditions reagents are stable for one year from the date of production.

For frequent use, SYBR® Green Real Time PCR Master Mix can be stored at 2-8 C for 2 months.

General Reaction Protocol:

Component	Volume	Final conc.
2X Master Mix	10 μL	1X
50X ROX dye (If needed)	0.4 μL	1X
Forward Primer	0.2~2.0 μL	0.1~1.0
(10 pmoles/μL)	0.2 2.0 μL	pmoles
Reverse Primer	0.2~2.0 μL	0.1~1.0
(10 pmoles/μL)	0.2 2.0 με	pmoles
Template DNA	Variable	10 fg~1 μg
PCR Grade D.W.	Variable	-
Total Volume	20 μL	-

- 1. Thaw 2X SYBR® Green Real Time PCR Master Mix.
- 2. Prepare a master mix. Gently mix reagents by inverting the tube and centrifuge. DO NOT vortex and avoid producing bubble.
- 3. Mix the master mix thoroughly and dispense appropriate volumes into PCR tubes or plates.

- 4. Add templates DNA to the individual PCR tubes or wells containing the master mix.
- 5. Program the Real-Time PCR machine according to the program outlined.
- 6. Place the PCR tubes or PCR plates in the terminal cycler and start the cycling program.

7. Perform a melting curve analysis of the PCR product(s).

Time	Temp °C
10 Min*	<u>94</u>
15 Sec*	<u>95</u>
30 Sec	50~60
30 ~60 Sec	72
5 Min	72
	10 Min* 15 Sec* 30 Sec 30 ~60 Sec

Disclaimers and Addresses:

This product is for **Research Use Only** and should only be used by trained professionals.

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