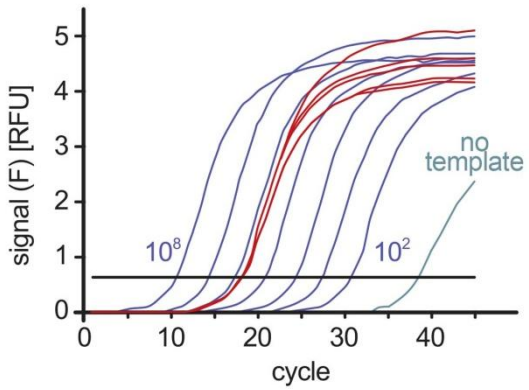
2X SYBR Green Real Time PCR Master Mix

Description:

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

Reaction Protocol Template:

Component	Volume	Final conc.
2X Master Mix	10 µL	1X
Forward Primer (10 pmol/ µL)	0.2~2.0 µL	0.1~1.0 pmoles
Reverse Primer (10 pmol/ µL)	0.2~2.0 µL	0.1~1.0 pmoles
Template DNA	Variable	10 fg to 1 µg
PCR grade water	Up to 20µL final volume	
Total Volume	**20 µL**	



Reaction Protocol:

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 thermal cycler and start the cycling program.
7. Perform a melting curve analysis of the PCR product(s).

Cycle	Time	Temp °C
1	15 min	95
25 - 35	15 sec	95
	30 sec	50 ~ 60
	30 - 60 sec	72
1	5 min	72

Contents:

	NP040102100	NP040102500	NP040102102	NP040102252	NP040102502
Components	**100 tests**	**500 tests**	**1000 tests**	**2500 tests**	**5000 tests**
SYBR® Green Master Mix (2X)	1 mL	5 mL	10 mL	25 mL	50 mL