

AviSYBR™

Cat. No.: A10910 Cat. No.: A10911 Cat. No.: A10912

Store at -20 °C

0.5 ml

1.0 ml

5.0 ml

Component	A10910	A10911	A10912
SYBR Green	0 E ml	1.0 ml	Ev 1ml
Master Mix (2x)	0.5 111	1.0 111	2 X TIIII
50x ROX dye	2 5 μl	50 µl	2 50 μl

Description:

AviSYBR™ is a very sensitive and easy to use for real-time quantitative analysis of DNA and cDNA targets from various sources.
AviSYBR™ is based on the SYBR Green I and a Hot-start Taq DNA polymerase (chemically modified and anti Taq) plus the pre-optimized 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
- II. 2X Master Mix (per 10 μL):
 - 1unit HS Prime Taq DNA Polymerase
 - 5 mM MgCl2

- 2mM dNTPs mixture
- 2X SYBR Green I

Kit storage: AviSYBR™ should be stored at -20°C.

Unnecessary repeated freeze/thawing should be avoided. Under these condition reagents are stable for one

<u>year</u> 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.

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General Reaction Protocol:

Thaw AviSYBR™

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

- Prepare AviSYBR™ gently mix reagents by inverting the tube and centrifuge.
 DO NOT vortex and avoid producing bubble.
 Mix AviSYBR™ 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.

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

- **6.** Place the PCR tubes or PCR plates in the terminal cycler and start the cycling program.
- Perform a melting curve analysis of the PCR product(s).

Disclaimers:

AviSYBR™ is for **Research Use Only** and should only be used by trained professionals.

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