



AviCidiNA™

Cat. No.: A10810

50 tests

Cat. No.:

100 tests

Store at -20 °C

Component	A10810	A10811
Buffer mix (2x)	500 µl	1 ml
Enzyme mix	100 µl	200 µl
DEPC-treated water	500 µl	1 ml
cDNA Control	50 µl	100 µl
Primer Mix (B2M)		

Description:

AviCidiNA™ contains all necessary components for conversion of total RNA or mRNA to **the single stranded cDNA**.

Buffer mix (2X) contains:

- RT buffer
- 1mM dNTP mixture
- 8mM MgCl₂
- Oligo d(t)16
- Random hexamer
- Stabilizer

Enzyme mix contains:

- Thermostable H-minus MMLV
- RNase Inhibitor
- Stabilizer

Features:

- Easy protocol & minimum pipetting steps.
- RNase minus MMLV enzyme.
- Long mRNA synthesis.
- High temperature reaction to destabilize RNA secondary structures.

General Reaction Protocol

(first strand cDNA synthesis):

1. Mix the template RNA (total RNA or Poly (A) mRNA) and other kit components in RNase-free tube as below table.
2. Mix the above mixture by quick vortex.

Component	Vol. (µl)
Taq 2X Premix	10
cDNA Control primer mix	1
cDNA	1-5
PCR Grade Water	Up to 20 µl

3. Incubate 10 min at 25 °C.
4. Incubate 60 min at 47 °C.
5. Stop the reaction by heating at 85 °C for 5 minutes. Chill on the ice or at 4 °C.

Note: To perform PCR, you can add the finished RT reaction up to 1:5 of the final PCR volume.

cDNA Control PCR Reaction:

1. Prepare a reaction mix according to the table.
2. For negative tube use PCR grade water. The final vol. in each PCR reaction tubes is 20 µl.

Component	Vol. (µl)
Taq 2X Premix	10
cDNA Control primer mix	1
cDNA	1-5
PCR Grade Water	Up to 20 µl

Note: It is recommended that all of the PCR components be premixed in a sufficient quantity for daily needs and then dispensed into the individual reaction tubes.

Amplification protocol:

Cycle	Time	Temp °C
1	4 min	95
35	30 sec	94
	30 sec	57
	30 sec	72
1	5 min	72

Agarose gel Electrophoresis:

Run the total 5-7 µL of PCR products alongside 3 µL DNA marker on a 2% agarose gel containing **AviStain™**.

The B2M primers amplify a band of approximately 230 bp from **human, mouse and rat** B2M cDNA.

Disclaimers:

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