

Super RTase III

Cat. No.: 5060.02 50000U (200U/ul)

Description:

Super RTase III, is an RNA-dependent DNA polymerase and with reduced RNase H activity and increase thermal stability. The Super RTase III can synthesize 9.5kb products and provide high specificity ,high yields and more fulllength cDNA.

Reaction temperture:

50-55°C

Storage conditions:

-20°C

Unit definition:

One unit of activity is the amount of enzyme required to incorporate 1 nmole of dTTP into an acid-insoluble form in 10 minutes at 37°C using polyA-oligo (dT) as template and primer.

Supplied 5xRT buffer :

250 mM TrisHCl, pH 8.3 375 mM KCl 15 mM MgCl ₂ 50 mM DTT

Protocol:

1. Mix in the tube:

0.1-5 μ g of the total RNA (or 50-500 ng of mRNA) 5 pmole of strand-specific primer (or 250 to 500 ng of oligo -dT or 50-250 ng random primer for each μ g of RNA) add water up to 13 or to 14 μ l.

2. Incubate the mixture 10 min at 70°C, stand on ice for 1 minute and spin down.

3. Add into the mixture:

4 μl of 5xRT buffer 1 μl of dNTP mix 10mM RNAsin – 20-40 units (optional) 1ul Super RTase III– 200 units H₂O– up to 20 μl

- **4.** Mix well and spin down the mixture, if using random primers, incubation at 25°C for 5minutes.
- **5. Incubate the mixture at 50°C** during 30-60 minutes. If necessary, can increase to 55 °C for difficult templates or specific gene primer.
- 6. Heat the mixture 15 min at 70°C to inactivate the RTase.
- 7. Use the mixture for PCR or for other applications.
- ***For your PCR-Reaction, you need 1-10 µl of your RT-PCR product

Bio-East Technology Co., Ltd. Tel: 02-2831-3061 Fax: 02-2831-6374 E-mail: <u>bio.east@msa.hinet.net</u> http://www.bio-east.com.tw