

AddScript cDNA Synthesis Kit

Product Information

Product Code 22701

Provided with

1. 20x Enzyme Solution 50 μ l
2. 5x Reaction Buffer 0.2 mL
3. 10mM dNTP Mixture 0.1 mL
4. 10x Oligo dT₂₀ 0.1 mL
5. 10x Random Hexamer 0.1 mL
6. Nuclease-free Water 1.0 mL

Storage Conditions -10°C ~ -30°C

Stability Stable for 2 years from manufacturing date.

Components of AddScript cDNA Synthesis Kit

AddStart Taq DNA Polymerase, Reverse Transcriptase and RNase Inhibitor are included in 20x Enzyme Solution. And Tris-HCl (pH8.5), Potassium Chloride, Ammonium Sulfate, MgCl₂, DTT and Protein stabilizer are included in 5x Reaction Buffer.

Description

AddScript cDNA Synthesis Kit provides sensitive and easy-to-use components which contain all the reagents for first strand cDNA synthesis. Especially, thermostable MMLV RTase (RNase H-) and RNase Inhibitor are included in 20x Enzyme Solution. This kit can be also applied to real-time PCR by fluorescent intercalating dye like SYBR Green I[®] and TaqMan[®] Probe.

Applications

- First-strand cDNA synthesis
- cDNA library construction
- Gene expression analysis

Nucleic Acid Amplification Procedure

1. Add the following components to a thin-walled PCR tube:

Nuclease-Free Water	x μ l
5x Reaction Buffer	4 μ l
10mM dNTP Mixture	2.0 μ l
10x oligo dT ₂₀ [or 10x random hexamer]	2.0 μ l
RNA template	x μ l
20x AddScript Enzyme Solution	1.0 μ l
Total reaction volume	20 μ l

* Recommendation for template RNA concentration in a 20 μ l reaction volume

- 1) total RNA: 100 fg ~ 1 μ g
- 2) mRNA: 10 fg ~ 1 μ g

2. PCR cycling

Priming	25°C, 10 min
cDNA synthesis	50°C, 30 - 60 min
RT inactivation	80°C, 5 min
Hold	12°C, ∞

[Note] Recommendation for downstream PCR

For downstream PCR amplification, the volume of cDNA product can be used 1 ~ 6 μ l as template in 20 μ l PCR reaction

Manufacture

애드바이오메디텍

www.addbiomeditek.com / addbiomeditek@addbiomeditek.com