



BioDiamond One tube RT-PCR kit

Cat. No. DMDRT003

Pack size: 50rx

Description

The 2x One-tube RT-PCR Hot Start kit is designed for combining two reactions of reverse transcription and PCR. It provides more simple and effective operation in RT-PCR. The reverse transcription step is working by M-MLV RT (H-). The PCR reaction is working by Hot start Taq DNA Polymerase. An especially reaction buffer is provided both for Reverse Transcriptase and Hot Start Taq DNA Polymerase.

Storage condition

-20°C

Mix component

M-MLV RTase

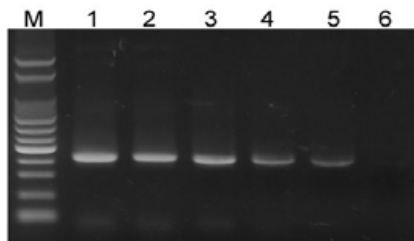
Hot start Taq

RT-PCR reaction buffer

dNTP

stabilizer

One tube RT-PCR result



One tube RT-PCR test (β -actin)

M: 100 bp marker

1-6 contain RNA 1, 0.1, 0.01, 0.001, 0.0001, and 0.00001 μ g

Sensitivity

Targets can generally be detected from < 1 pg to 50 ng polyA RNA(mRNA) or 10 pg to 1 μ g total RNA. Even lower amounts of RNA may be successfully amplified by using highly expressed transcripts.

RT-PCR cycles program

Step	Temperature	Time min	Cycle
RT reaction	37-50	30-120	1
Initial Denaturation	94	10	1
Denaturation	94	0.2-1	
Annealing	50-68	0.2-2	30-45
Extension	72	1min/kb	
Final extension	72	1-10	1

Analyzing the RT-PCR Products

Analyze the RT-PCR products by 1.0% (w/v) agarose gel electrophoresis. The products will be visible by UV transillumination of the ethidium bromide-stained agarose gel. Store the reaction products at -20°C until needed.

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