



For research use only

ISO9001

HiPi™ One-step 5x RT-PCR Master Premix

Product Description	Quantity	Cat. No.	Remarks
HiPi™ One-step 5x	250 unit	EBT-1101	5x ready-to-use mix
RT-PCR Master Premix	(1ml)		

Description

Elpis Biotech's HiPi One-step 5x RT-PCR Master Premix is a mixture of HiPi thermostable DNA polymerase, M-MLV reverse transcriptase, dNTPs, reaction buffer, and stabilizer. Users can perform RT-PCR by simply adding total RNA or poly(A) RNA as substrate and specific primer pair to the premix. HiPi One-step 5x RT-PCR Master Premix also contains glycerol and bromophenol blue as a tracking dye, enabling a direct analysis of PCR products on an analytic gel electrophoresis. Stabilizer in premix enables prolonging a shelf life at -20°C. You do not need to dissolve the mixture prior to RT-PCR reaction as does competitor's freeze-dried one. The composition is optimized to reduce non-specific amplification and to minimize primer-dimer formation.

Storage Buffer

1 unit/4 µl thermostable DNA polymerase, 50 units/4 µl MMLV-RT in 50 mM Tris-HCl, pH8.3, 250 mM KCl, 10 mM MgCl₂, 0.05% bromophenolblue, 12% glycerol, and stabilizer.

Application(s)

One-step RT-PCR.

QC tests

Activity, SDS-PAGE purity, performance tests.

Storage Condition

Store at -20°C for one month, -70°C for a long time.

Usage Information (protocol)**RT-PCR reaction mix (Total 20 µl)**

RT-PCR premix	4 µl
Template (total RNA)	100-500ng
Specific primers	5 pmol each
RNase free distilled water	up to 20 µl

RT-PCR reaction condition (100 bp -1 kbp)

42°C	20-30min	
94°C	5min	
94°C	30sec] x 25-45
50-60°C ^a	30sec	
72°C	45sec	
72°C ^b	5min	

a. Primer의 melting point 에 의해 결정

b. TA cloning을 위한 3'-terminal A를 효과적으로 붙이기 위한 과정으로 생각할 수 있다.

"PCR 반응 후 반응산물을 직접 loading 하세요"



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