CERTIFICATE OF ANALYSIS

BioTAQ DNA Polymerase

CATALOGUE NO: VBC)1,(500Units/100 μ l)Including10x reaction buffer with15mM MqCl2
CONCENTRATION:	5u/ μ l
UNIT DEFINITION:	One unit is defined as the amount Of nzyme that incorporates10 nmoles of dNTPs into acid insoluble form in 30 minutes at 74° C
STORAGE BUFFER:	20mM Tris-HCl (pH8.0 at 25° C); 1.0%Triton X-100; 0.1mM EDTA 1mM DTT; and 50%(v/v) glycerol.
STORAGE CONDITION:	Stable at -20 $^\circ\!\mathrm{C}$ for least one year when stored in a constant-temperature freezer.
ASSOCIATED ACTIVITIE	S: Endonuclease activity and exonuclease activity were not detectable After two hour incubation of 1 μ g lambda DNA and 0.22 μ g of EcoRI- digested lambda DNA at 72°C in presence of 5 units of BioTaq DNA Polymerase.
PROTOCOL:	The basic protocol serves as a general starting point for PCR, optimal reaction conditions, such as temperature, times, primers, and BioTaq concentration need to be evaluated by the customer.

QUALITY CONTROL: Sample : Human Genomic DNA



VB01,(500Units/100 µ I)Including10x reaction

in a constant-temperature freezer.

5 units of BioTaq DNA Polymerase.

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were not detectable After two hour incubation of 1 μ g lambda DNA and 0.22 μ g of EcoRIdigested lambda DNA at 72°C in presence of

buffer with15mM MgCl2

STORAGE CONDITION: Stable at -20 $^\circ\mathrm{C}$ for least one year when stored

ASSOCIATED ACTIVITIES: Endonuclease activity and exonuclease activity

5u/ μ Ι

1.Add the following components to a sterile PCR tube on ice:

Components	Volume	Final concentration	
10x PCR buffer/w Mgcl2	5ul	1X	
10mM dNTP mixture	1ul	0.2mM each	
Primer mix (10u M each)	2.5ul	0.5uM each	
Template DNA	1~10ul		
BioTaq DNA polymerase	0.5ul	2.5units	
Autoclaved distilled water to	50ul		
Mix contents of tube and overlay with 50ul of mineral oil			

3. Incubate tube in a thermocycler at 94° C for 3 minutes to completely denature the template.

4.PCR amplification cycles(30-35cycles)

, , ,	, Denature	91° C for	15e
	Denature		+00
	Anneal	55℃ tor	30s
	Extend	$72^{\circ}C$ for	1min30s

5.Incubate for additional 10min at 72 $^\circ\!\mathrm{C}$ and maintain 4 $^\circ\!\mathrm{C}$

Note: If DNA template to be used for PCR is from reverse transcript RNA, to avoid carried-over salt from RT reaction that may inhibit BioTaq DNA polymerase, no more then 1/10 (for example less then 2ul of 20ul total RT reaction) of the total RT volume should used in PCR reaction.

Components	Volume			
10x PCR buffer/w Mgcl 2	5ul			
2.5mM dNTP mixture	2ul			
primer mix (10uM each)	2.5ul			
Template DNA	2ul			
BioTaq DNA Polymerase	0.15ul			
Autoclaved distilled water to	50ul			
1.Incubate tube in a thermocycler at 94° C for 3 minutes				
2.PCR amplification cycles(35cycles)				
	Denature	94°C for	40s	
	Anneal	52°C for	30s	
	Extend	72°C for	1min	
3.Incubate for additional 10min at	t 72℃ and mainta	ain 4℃		

CERTIFICATE OF ANALYSIS

BioTAQ DNA Polymerase

CATALOGUE NO:

CONCENTRATION:

UNIT DEFINITION:

STORAGE BUFFER:

PROTOCOL:

BIOMAN SCIENTIFIC CO., LTD. TEL:02-8226-6598 FAX:02-8226-6586

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5(00 000)000)		
Denature	94°C for	45s
Anneal	55°C for	30s
Extend	72°C for	1min30s

5.Incubate for additional 10min at 72 $^\circ\!\mathrm{C}$ and maintain 4 $^\circ\!\mathrm{C}$

Components 10x PCR buffer/w Mgcl₂

2.5mM dNTP mixture

Template DNA

primer mix (10uM each)

BioTag DNA Polymerase

Autoclaved distilled water to

Note: If DNA template to be used for PCR is from reverse transcript RNA, to avoid carried-over salt from RT reaction that may inhibit BioTaq DNA polymerase, no more then 1/10 (for example less then 2ul of 20ul total RT reaction) of the total RT volume should used in PCR reaction.

Volume

5ul

2ul

2ul

2.5ul

0.15ul

50ul

QUALITY CONTROL:	
Sample : Human Genomic DNA	





1.Incubate tube in a thermocycler	∙at 94°C for 3 mir	nutes	
2.PCR amplification cycles(35cyc	cles)		
	Denature	94°C for	40s
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3.Incubate for additional 10min at	t 72℃ and mainta	ain 4℃	