



EXTRACTION & PURIFICATION KITS



SinaPure DNA whole blood, serum and plasma

SinaPure DNA kit contains all ingredients for rapid and efficient purification of genomic DNA from fresh and frozen anti-coagulated whole blood, serum and plasma.

The purification is based on the use of denaturing agents for cell lysis, denaturation of proteins and release of genomic DNA. Special buffers provided in the kit are optimized to enhance DNA- specific binding to the column for efficient recovery of DNA.

Specifications kit:

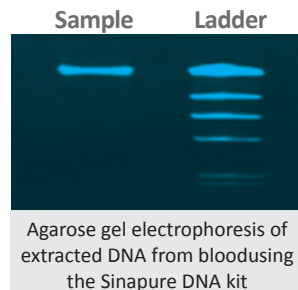
yields up to 3µg of DNA | No organic-based extraction required | Ability to extract DNA with high purity

Application Kit:

Applications of molecular biology | restriction enzyme digestion | PCR | Southern blotting
DNA fingerprinting

Kit Components:

| | |
|---------------------------|----------|
| Mini spin columns | 50x |
| Collection tubes (1.5 ml) | 50x |
| Lysis Buffer | 20 ml |
| Precipitation Buffer | 15 ml |
| Wash Buffer I | 20 ml |
| Wash Buffer II | 40 ml |
| Elution Buffer | 2x1250µl |



Ordering Information

| Cat.NO. | Product | Pack Size (Reaction) |
|---------|--|----------------------|
| EX6001 | SinaPure DNA (whole blood, serum and plasma) | 50 |

SinaPure DNA

(Cell culture, Tissues,
Gram negative Bacteria
and CSF)

This kit contains all ingredients for quick preparation of pure DNA from cell cultures, tissues, gram negative bacteria and CSF.

Specifications kit:

Binding Capacity Column: 2-25 µg | Yeild: 1.2-21µg | High purity extracted DNA for the following applications is available with this kit |

Application Kit:

Applications of molecular biology such as restriction enzyme digestion | PCR | Southern blotting | DNA fingerprinting

Kit Components:

- Mini spin columns 50×
- Collection tubes (1.5 ml) 50×
- Prelysis Buffer 5 ml
- RNase A 250ul
- Proteinase K 1.5ml
- Lysis Buffer 20 ml
- Precipitation Buffer 15 ml
- Wash Buffer I 20 ml
- Wash Buffer II 40 ml
- Elution Buffer 2×1250µl

Ladder mouse Liver chicken Heart



Agarose gel electrophoresis of Extracted DNA from animal tissues using the SinaPure DNA Kit

Ordering Information

| Cat.NO. | Product | Pack Size (Reaction) |
|---------|--|----------------------|
| EX6011 | SinaPure-DNA (Cell culture, Tissues, Gram negative Bacteria and CSF) | 50 |

SinaPure DNA

FFPE Tissue

The SinaPure DNA Kit is designed for the isolation of genomic DNA from formalin-fixed, paraffin-embedded tissues. Tissue section deparaffinized by xylene and then xylene removes by ethanol finally tissue rehydrates in water. Optimal Pre lysis buffer composition during incubation time, enhance tissue degradation and DNA leakage.

Specifications kit:

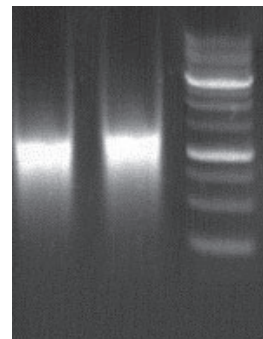
yields up to 20µg of DNA | No organic-based extraction required | High purity extracted DNA for the following applications is available with this kit

Application Kit:

Applications of molecular biology such restriction enzyme digestion | PCR | Southern blotting | DNA fingerprinting |

Kit Components:

- Mini spin columns 25x
- Collection tubes (2.0 ml) 25x
- Prelysis Buffer 2.5 ml
- Ributinas, 100mg/ml 750ul
- Lysis Buffer 10 ml
- Precipitation Buffer 7.5 ml
- Wash Buffer I 10ml
- Wash Buffer II 20ml
- Elution Buffer 2.5ml



Agarose gel electrophoresis of Extracted DNA from FFPE Tissue

Ordering Information

| Cat.NO. | Product | Pack Size (Reaction) |
|---------|---------------------------|----------------------|
| EX6041 | SinaPure DNA- FFPE Tissue | 25 |

SinaPure ONE

This kit designed for simultaneous and rapid purification of DNA and RNA from cells, tissue, Plasma, bacteria and etc.

Specifications kit:

Special buffers provided in the kit are optimized to enhance the binding of DNA and RNA onto DNase- free and RNase Free column to increase efficiency of the kit.

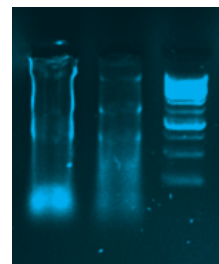
Application Kit:

To simultaneously extract nucleic acid from samples: Cell - Tissue - bacteria - Plasma - Buccal or Vaginal Swab

Kit Components

- Mini spin columns 50x
- Collection tubes (1.5 ml) 50x
- DNaseI set 1x
- Lysis Buffer 20 ml
- Precipitation Buffer 15 ml
- Wash Buffer I 20 ml
- Wash Buffer II 40 ml
- Nuclease free water 5ml

ladder



Sample extracted
using Sinapure ONE

Ordering Information

| Cat.NO. | Product | Pack Size (Reaction) |
|---------|---|----------------------|
| EX6051 | SinaPure ONE(Simultaneous DNA and RNA extraction) | 50 |

SinaPure Viral

SinaPure Viral Kit is designed for rapid and efficient purification of viral DNA/RNA from biological samples like serum, plasma, or virus-infected cell culture supernatant.

The purification is based on the use of denaturing agents for cell lysis, denaturation of proteins and release of DNA / RNA. Special buffers provided in the kit are optimized to enhance the binding of DNA and RNA onto DNase- free and RNase Free column to increase efficiency of the kit.

Specifications kit:

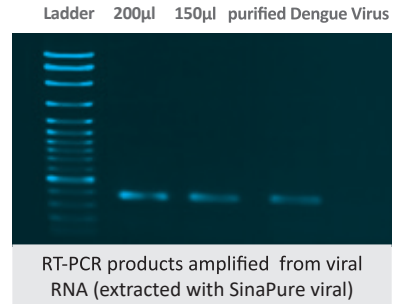
High purity extracted DNA for the following applications is available with this kit

Application Kit:

Applications of molecular biology such as restriction enzyme digestion | PCR

Kit Components

- Mini spin columns 50x
- Collection tubes (1.5 ml) 50x
- Lysis Buffer 20 ml
- Precipitation Buffer 15 ml
- Wash Buffer I 20 ml
- Wash Buffer II 40 ml
- Elution Buffer 5ml



Ordering Information

| Cat.NO. | Product | Pack Size (Reaction) |
|---------------|----------------|----------------------|
| EX6061/EX6063 | SinaPure Viral | 50/100 |

DNA EXTRACTION Kit DNP™

DNP™ Kit is designed to isolate double-stranded DNA from human or animal sources. The procedure requires 35 - 55 minutes and does not require phenol extraction nor changing tube during procedure.

Specifications kit:

yields up to 10 - 20µg from 100µl of sample | Extracted DNA with this kit can be used in a variety of biological applications |

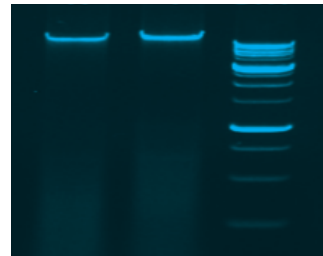
Application Kit:

PCR | Restriction digestion | Cloning | Southern blot | DNA sequencing

Kit Components:

- Protease
Proteinase K (20 mg /ml) 250 µl
- Lysis Solution 20 ml
- Precipitation Solution (Isopropanol Base) 15 ml
- Protease Buffer 5 ml
- Wash Buffer (Ethanol Base) 2 × 50 ml
- Solvent Buffer 2×1250 µl

Human Blood 1 Human Blood 2 Ladder



Agarose gel electrophoresis of extracted DNA from blood using DNA EXTRACTION Kit DNP™

Ordering Information

| Cat.NO. | Product | Pack Size (Reaction) |
|---------|---------------------------|----------------------|
| EX6071 | DNA EXTRACTION Kit (DNP™) | 50 |

DNG – plus DNA Extraction Solution

DNG™-Plus Solution is designed to isolate double-stranded DNA from human samples. DNG-Plus is also used to detect M. tuberculosis in human.

The procedure requires 30 - 50 minutes and does not require phenol extraction or proteinase digestion.

Specifications kit:

yields up to 1-5 µg from 100µl fresh whole blood | Extracted DNA with this kit can be used in a variety of biological applications

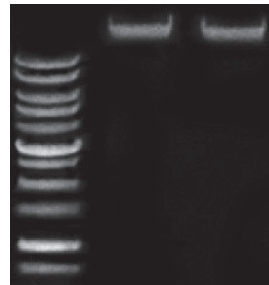
Application Kit:

Molecular biology such as an restriction enzyme digestion | PCR | Southern blotting | DNA fingerprinting

Kit Components:

- DNG-Plus

Ladder Human Blood 1 Human Blood 2



Gel electrophoresis of
Extracted DNA from blood
using DNG-plus solution

Ordering Information

| Cat.NO. | Product | Pack Size (Reaction) |
|---------|--------------------------------------|----------------------|
| EX6081 | DNA Extraction Solution (DNG - plus) | 50 |
| EX6082 | DNA Extration Solution (DNG - plus) | 250 |

RNX- Plus Solution for total RNA isolation

RNX- Plus is a Guanidine / phenol solution for total RNA isolation from homogenized sample.

Specifications kit:

Through the action of Guanidine salt in RNA isolation procedure, simultaneously DNA and protein are precipitated in phenol phase. Aqueous phase contains high quality and all types of the genomic RNA.

Application Kit:

Extraction of total RNA

| Sample | Disruption | Homogenization |
|-----------------------------|---|------------------------------|
| Cells | RNX solution | Vortex |
| Tissue | By mortar and pestle in liquid Nitrogen | Shredder -Syringe and Needle |
| Yeast cell | lyticase | Vortex |
| Plant and Filamentous Fungi | By mortar and pestle in liquid Nitrogen | Shredder |
| Liquid materials | RNX solution | Vortex |
| WBC pellet | RNX solution. | Vortex |

Human Blood 1 Human Blood 2 Human Blood 3



Agarose gel electrophoresis of extracted RNA from blood using RNX solution

Ordering Information

| Cat.NO. | Product | Pack Size (Reaction) |
|---------|----------|----------------------|
| EX6101 | RNX Plus | 25 |

SinaPure RNA Cell Culture, Animal Tissues, Bacteria, Serum and Plasma

This kit contains all ingredients for quick preparation of RNA from tissues, cell cultures, bacteria and Plasma. This kit presents remarkable features of timesaving, easy, and high yield RNA purification. Basis of the technology is the binding of RNA to matrices including silica membrane filters in presences of high salts concentration and reversibly elution in low salt condition like RNase free water. Obtained RNA is suitable for downstream applications including RT PCR, cDNA synthesis.

Specifications kit:

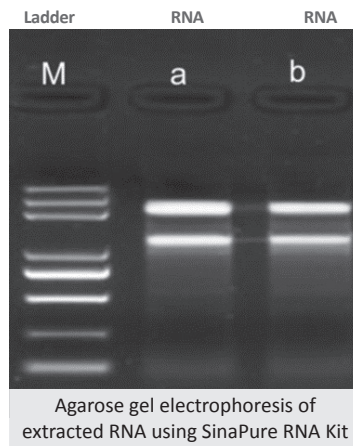
High purity extracted RNA for the following applications

Application Kit:

Obtained RNA is suitable for downstream applications including RT PCR, cDNA synthesis

Kit Components:

| | |
|------------------------|----------|
| ● spin columns | 50x |
| ● Collection tubes | 50x |
| ● Lysis Buffer | 20 ml |
| ● Precipitation Buffer | 15 ml |
| ● Wash Buffer I | 20 ml |
| ● Wash Buffer II | 40 ml |
| ● RNase free water | 2x1250µl |



Plasmid Extraction Kit

SinaClon Plasmid extraction Kit provides easy and rapid method for the small-scale preparation of high copy and low copy plasmid DNA from bacterial cells.

The kit uses the alkaline lysis-SDS method to lyse cells and release plasmid DNA.

Specifications kit:

yields up to Binding Capacity Column: 30 µg | Yeild: 6-25 µg | The extraction process takes 45 minutes | The extracted plasmid can be used for various molecular biology applications |

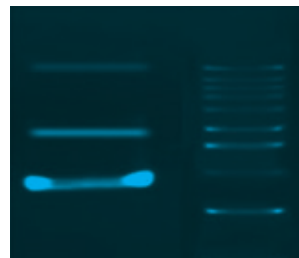
Application Kit:

Restriction enzyme digestion | PCR | Ligation | DNA sequencing | Transformation, etc.

Kit Components:

- RB 12.5ml
- LB 12.5ml
- NB 17.5ml
- WB 35ml
- EB 5ml
- RNase A 20mg/ml
- Mini Column 50x

Plasmid Ladder



Plasmid DNA was extracted using
SinaClon plasmid extraction Kit

Ordering Information

| Cat.NO. | Product | Pack Size (Reaction) |
|---------|------------------------|----------------------|
| EX6112 | Plasmid Extraction Kit | 50 |

SinaPure-DNA Gram Positive Bacteria

This kit contains all ingredients for quick preparation of pure DNA from gram positive bacteria

the Ributininase enzyme blend for simultaneously protein and RNA degradation therefore there is no need for further RNase treatment

Specifications kit:

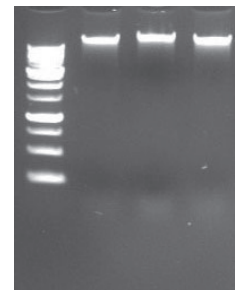
yields up to Binding Capacity Column: 2-25 µg | Yield: 1-20µgµg | The high purity extracted DNA can be used for various molecular biology applications

Application Kit:

Applications of molecular biology such as restriction enzyme digestion | PCR | Southern blotting | DNA fingerprinting

Kit Components:

- Mini spin columns 50x
- Collection tubes (1.5 ml) 50x
- G⁺Prelysis Buffer 5 ml
- Lysozyme 1ml
- Ributininase 500ul
- Lysis Buffer 20 ml
- Precipitation Buffer 15 ml
- Wash Buffer I 20 ml
- Wash Buffer II 40 ml
- Elution Buffer 2x1250ul



DNA extracted from gram positive bacteria using SinaPure-DNA gram (+) bacteria kit

Ordering Information

| Cat.NO. | Product | Pack Size (Reaction) |
|---------|-------------------------------------|----------------------|
| EX6021 | SinaPure-DNA Gram Positive Bacteria | 50 |

PCR Clean-up Kit

PCR Clean-up Kit is designed for rapid and efficient clean up of DNA ranging from 100bp to 10kb. The kit efficiently removes dNTPs, short oligo fragments, mineral oil, enzymes from a PCR reaction product, removes proteins after restriction enzyme treatment. This kit is also suited for concentrating DNA, and desalting.

Specifications kit:

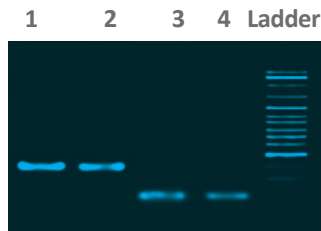
Purification in less than 15 minutes | Purified DNA has the potential to be used in the common practice of molecular biology

Application Kit:

DNA purification for applications | Enzymatic digestion | sequencing | ligation | PCR

Kit Components:

- Binding Buffer 25ml
- Washing Buffer 7ml
- Elution Buffer 5ml
- Column (mini) 50x



clean up and recovery of DNA fragments from PCR reactions using the PCR Clean-up kit.

1. PCR product of 400bp before clean-up
2. PCR Cleaned- up product of 400bp.
3. PCR product of 200bp before clean-up
4. PCR Cleaned- up product of 200bp.

Ordering Information

| Cat.NO. | Product | Pack Size (Reaction) |
|---------|------------------|----------------------|
| EX6141 | PCR Clean-up Kit | 50 |

Gel DNA Recovery Kit

Gel DNA Recovery Kit provides reliable and fast method for a fast and efficient isolation of 100 bp to 10 kb of DNA fragments from standard or low-melting agarose gel in TAE or TBE buffer system.

Specifications kit:

DNA recovery with 90% efficiency | Purification in less than 15 minutes | High pure DNA ready-to-use for routine molecular biology applications

Application Kit:

DNA purification for applications | Digestion | Sequencing | ligation | PCR

Kit Components:

- Binding buffer 30ml
- washing buffer 4ml
- Elution buffer 2.5ml
- Mini Column 25x



Recovery of DNA fragments from TBE agarose gel.

1. DNA fragment 1.5 Kb
2. Recovered 1.5 Kb DNA fragment.
3. DNA fragment 300 bp
4. Recovered 300 Kb DNA fragment.

Ordering Information

| Cat.NO. | Product | Pack Size (Reaction) |
|---------|----------------------|----------------------|
| EX6151 | Gel DNA Recovery Kit | 25 |

Plant DNA Extraction Kit

Plant DNA Extraction Kit provide a simple and easy method for the small scale purification of total DNA from various plant tissues

Specifications kit:

Binding Capacity Column: 50 µg | Yeild: 4-40µg | The genomic DNA extracted is usable in the common practice of molecular biology

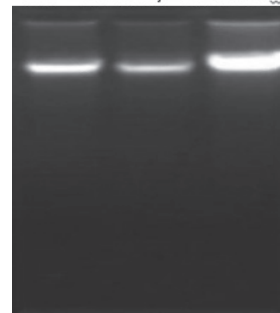
Application Kit:

DNA purification for applications | Digestion | Southern blotting | DNA fingerprinting

Kit Components:

- Lysis Buffer 25ml
- B-mercaptoethanol 1ml
- Precipitation Buffer 40ml
- Binding Buffer 20ml
- Wash Buffer I 25ml
- Wash Buffer II 50ml
- Elution Buffer 5ml
- RNaseA(20mg/ml) 250µl
- Mini Column 50x

Rice Rosemary *Convolvulus grvensis*



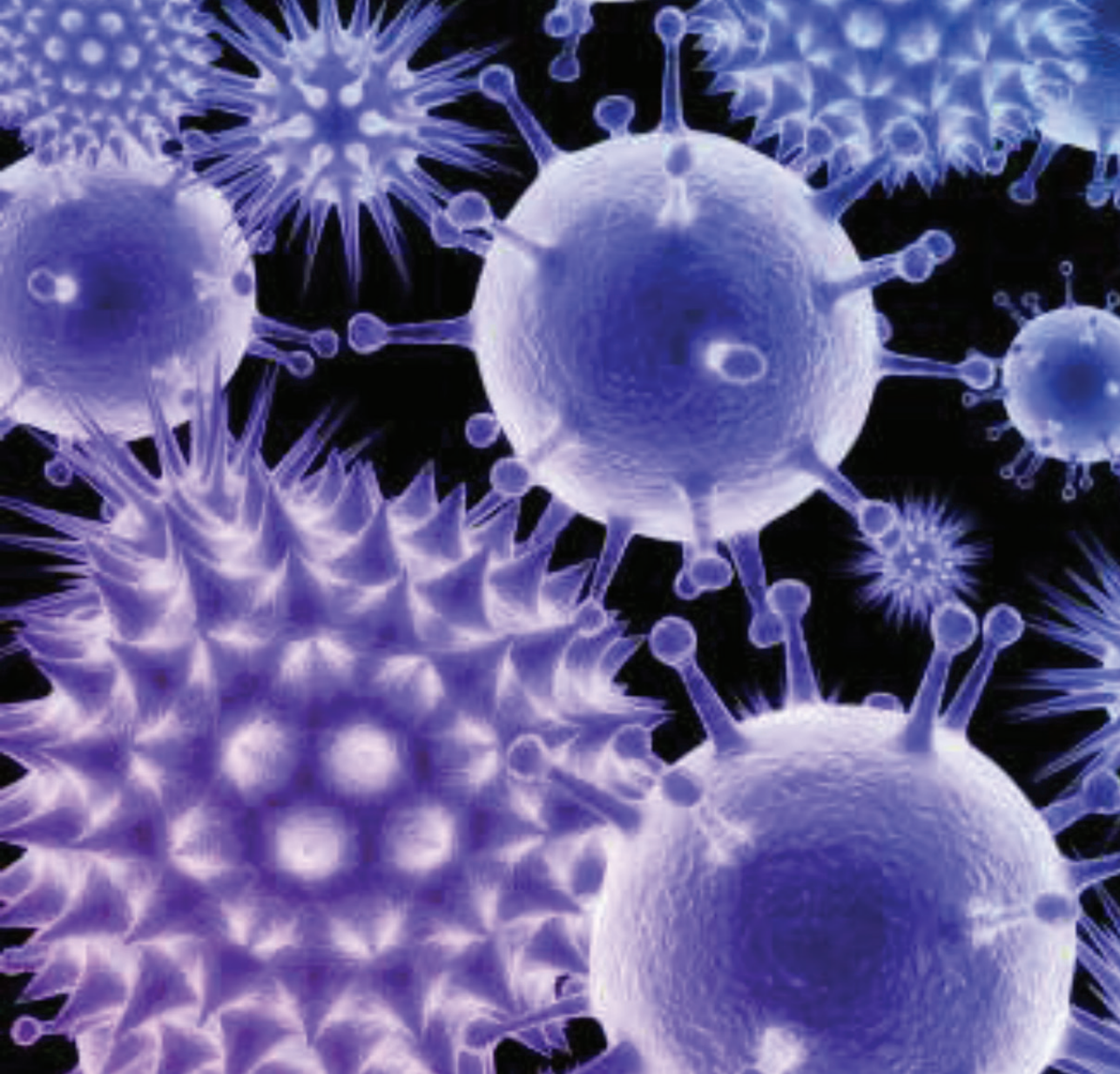
Agarose gel electrophoresis of genomic DNA purified from various plant tissue using plant DNA extraction kit

Ordering Information

| Cat.NO. | Product | Pack Size (Reaction) |
|---------|--------------------------|----------------------|
| EX6131 | Plant DNA Extraction Kit | 50 |



Quantitative Real-Time PCR Kit



HBV Quantitative Real-Time PCR Kit

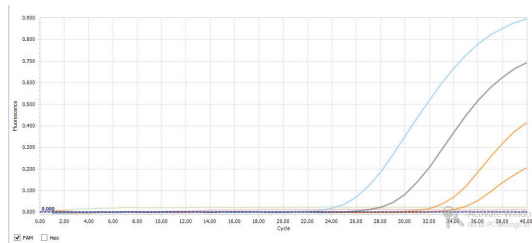
HBV quantitative real time PCR kit is used for the detection of HBV in serum by using real time PCR systems.

Specifications kit:

The length of amplification product is 121 bp in the specific conservative DNA sequence of the virus genome. The detection of amplified HBV DNA fragment is performed in fluorimeter channel FAM. In addition, the kit contains a system to identify possible PCR inhibition by measuring the HEX fluorescence of the internal control (IC). Four quantitation standards are supplied.

Application Kit:

Identifying and quantitatively measuring the hepatitis B virus DNA



Ordering Information

| Cat.NO. | Product | Pack Size (Reaction) |
|---------|------------------------------------|----------------------|
| PQ3501 | HBV Quantitative Real-Time PCR Kit | 48test |

HIV Quantitative Real-Time PCR Kit

The HIV Quantitative Real-Time PCR Kit is designed to detect and quantitate Human immunodeficiency virus (HIV) in serum samples.

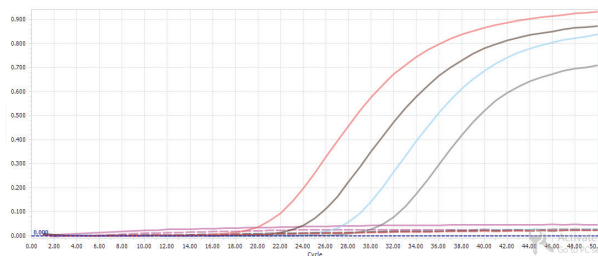
Specifications kit:

The length of amplification product is 103 bp in the specific conservative sequence of the virus genome. The detection of amplified HIV fragment is performed in fluorimeter channel FAM. In addition, the kit contains a system to identify possible PCR inhibition by measuring the HEX fluorescence of the internal control (IC).

Four quantitation standards are supplied.

Application Kit:

Identifying and quantitatively measuring the human immunodeficiency virus (HIV) RNA



Ordering Information

| Cat.NO. | Product | Pack Size (Reaction) |
|---------|------------------------------------|----------------------|
| PQ3521 | HIV Quantitative Real-Time PCR Kit | 48test |

HCV Quantitative Real-Time PCR Kit

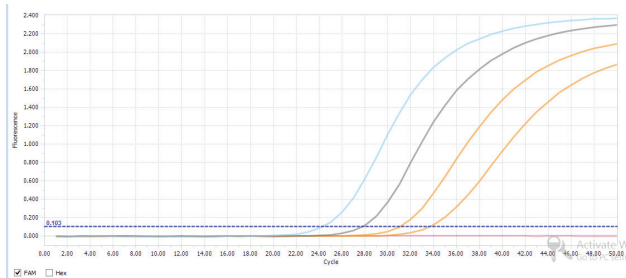
PCR Kit is designed to detect and quantitate hepatitis C virus in serum samples.

Specifications kit:

The length of amplification product is 98 bp in the specific conservative sequence of the virus genome. The detection of amplified HCV fragment is performed in fluorimeter channel FAM. In addition, the kit contains a system to identify possible PCR inhibition by measuring the HEX fluorescence of the internal control (IC). Four quantitation standards are supplied.

Application Kit:

Identifying and quantitatively measuring the hepatitis C virus RNA



Ordering Information

| Cat.NO. | Product | Pack Size (Reaction) |
|---------|------------------------------------|----------------------|
| PQ3511 | HCV Quantitative Real-Time PCR Kit | 48test |

CMV Quantitative Real-Time PCR Kit

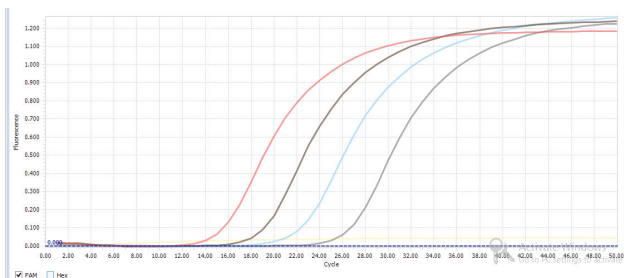
PCR Kit is designed to detect and quantitate Cytomegalovirus (CMV) in serum samples.

Specifications kit:

The length of amplification product is 101 bp in the specific conservative DNA sequence of the virus genome. The detection of amplified CMV DNA fragment is performed in fluorimeter channel FAM. In addition, the kit contains a system to identify possible PCR inhibition by measuring the HEX fluorescence of the internal control (IC). Four quantitation standards are supplied.

Application Kit:

Identifying and quantitatively measuring the DNA of the Cytomegalovirus (CMV)



Ordering Information

| Cat.NO. | Product | Pack Size (Reaction) |
|---------|------------------------------------|----------------------|
| PQ3531 | CMV Quantitative Real-Time PCR Kit | 48test |



Taq DNA Polymerase



Taq DNA Polymerase

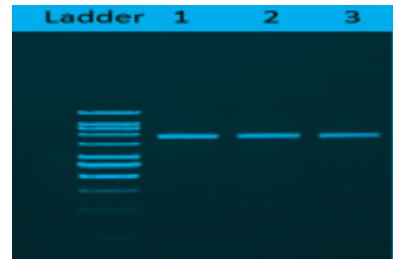
Taq DNA Polymerase is a highly thermostable recombinant DNA polymerase of the thermophilic bacterium *Thermus aquaticus*. This enzyme catalyzes the polymerization of nucleotides in a double-stranded DNA in the direction of 5' to 3' in the presence of MgCl₂ and has the 5' to 3' exonuclease activity.

Enzyme profile:

Recombinant Taq DNA Polymerase is ideal for standard PCR of amplicons up to 5 kb | Generates 3' dA overhang amplification products which are suitable for TA cloning.

Application Kit:

Applications of molecular biology | PCR | TA Cloning



PCR product amplification using SinaClon
Taq DNA polymerase

Ordering Information

| Cat.NO. | Product | Pack Size (Reaction) |
|---------|--------------------|----------------------|
| DP1601 | Taq DNA Polymerase | 100u |
| DP1602 | Taq DNA Polymerase | 500u |
| DP1603 | Taq DNA Polymerase | 2500u |

SmarTaq DNA Polymerase

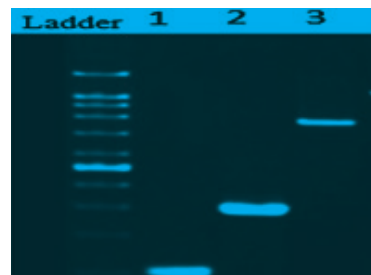
SmarTaq DNA Polymerase is a highly thermostable recombinant DNA polymerase of the thermophilic bacterium *Thermus aquaticus*. This enzyme catalyzes the polymerization of nucleotides in double-stranded DNA in the direction of 5' to 3' in the presence of MgCl₂ And suitable for the polymerization of large-sized patterns.

Enzyme profile:

Highly purified recombinant proteins can reproduce DNA up to 5kb.

Application Kit:

Applications of molecular biology | PCR | TA Cloning | DNA sequencing | PCR for cloning



PCR product amplification using SinaClon
.SmarTaq DNA polymerase
Kb 5 .3 Kb 1.5 .2 Kb 0.5 .1

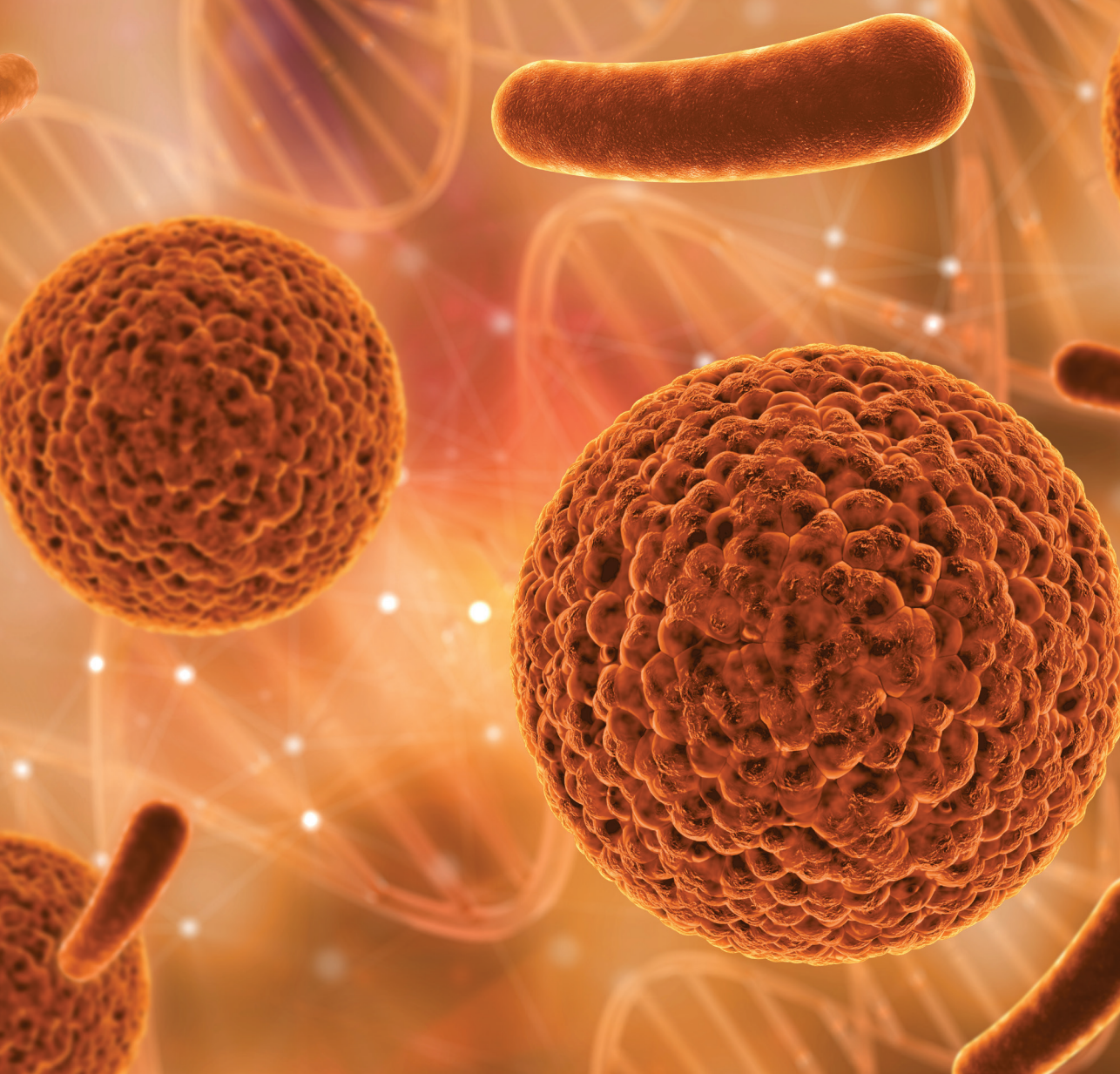
Ordering Information

| Cat.NO. | Product | Pack Size (Reaction) |
|---------|------------------------|----------------------|
| DP1611 | SmarTaq DNA Polymerase | 100u |
| DP1612 | SmarTaq DNA Polymerase | 500u |
| DP1613 | SmarTaq DNA Polymerase | 2500u |

Note



PCR Detection KIT



Cytomegalovirus PCR Detection Kit

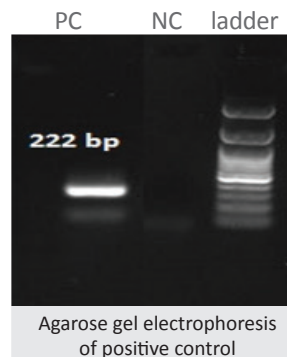
This kit is designed to qualitative detection of human CMV DNA in humans by the PCR reaction. The kit has all the necessary ingredients for the PCR reaction.

Specifications kit:

Detection is based on the amplification of a specific conservative DNA sequence. SinaClon DNG™-Plus kit is recommended for DNA extraction from blood samples. DNP™ Kit is recommended for tissue DNA extraction. The ability to detect CMV DNA in serum and plasma. positive control is provided to ensure the accuracy of the detection fragment.

Application Kit:

Determine the quality of human CMV DNA in human serum and plasma



Ordering Information

| Cat.NO. | Product | Pack Size (Reaction) |
|---------|-----------------------|----------------------|
| PK3001 | CMV PCR Detection Kit | 50 |

Hepatitis B Virus PCR Detection Kit

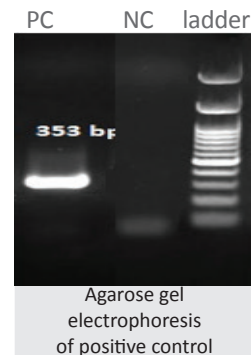
Hepatitis B Virus PCR Detection kit is designed for qualitative detection of HBV DNA in serum and plasma of Human blood and other Human sample by the method of Polymerase Chain Reaction. This kit contains all the necessary ingredients for PCR.

Specifications kit:

Detection is based on the amplification of a specific conservative DNA sequence. The optimal DNA extraction, the SinaClon DNA Extraction Kit (DNP™ Kit) is recommended. Ability to detect HBV DNA in serum and plasma. positive control is provided to ensure the accuracy of the detection.

Application Kit:

Determine the qualitative value of HBV DNA in human serum and plasma



Ordering Information

| Cat.NO. | Product | Pack Size (Reaction) |
|---------|-----------------------|----------------------|
| PK3021 | HBV PCR Detection Kit | 50 |

Hepatitis C Virus PCR Detection Kit

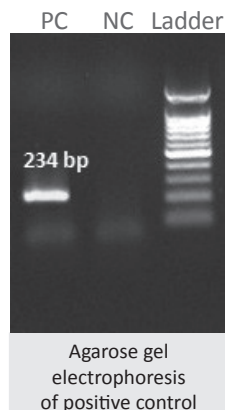
This kit is designed to qualitative detection of HCV RNA in human serum and plasma based on Single tube RT reaction followed by nested PCR. This kit contains all the necessary ingredients for PCR.

Specifications kit:

Detection is based on the amplification of a specific conservative DNA sequence. The ability to detect HCV RNA in humans. The HCV qualitative diagnostic kit allows you to use RNA directly in the PCR reaction. positive control is provided to ensure the accuracy of the detection.

Application Kit:

Determine the qualitative value of HCV RNA in human serum and plasma



Ordering Information

| Cat.NO. | Product | Pack Size (Reaction) |
|---------|-----------------------|----------------------|
| PK3041 | HCV PCR Detection Kit | 50 |

Herpes Simplex virus I&II PCR Detection Kit

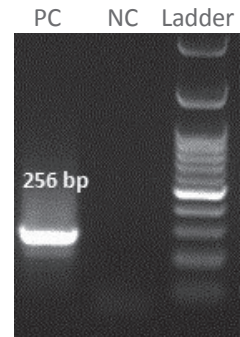
This kit is designed to qualitative detection of Herpes simplex Virus I & II (HSV I & II) DNA in the human based on the PCR reaction. The kit has all the necessary ingredients for the PCR reaction.

Specifications kit:

Detection is based on the amplification of a specific conservative DNA sequence. For optimal DNA extraction, the Sina Clon DNA Extraction Kit (DNG™ Kit) is recommended. The ability to detect HSV I & II DNA CSF. positive control is provided to ensure the accuracy of the detection.

Application Kit:

Determine the qualitative value of HSV I & II DNA in CSF



Agarose gel electrophoresis
of positive control

Ordering Information

| Cat.NO. | Product | Pack Size (Reaction) |
|---------|-----------------------|----------------------|
| PK3051 | HSV PCR Detection Kit | 20 |

Leishmania sp. PCR Detection Kit

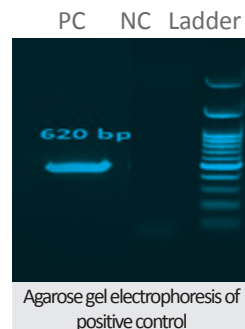
This kit is designed for qualitative detection of Leishmania sp. kinetoplast DNA (kDNA) in the Human sample by the method of Polymerase Chain Reaction. Using this kit species of Leishmania Parasite could be determined by different PCR products size.

Specifications kit:

Detection is based on the amplification of a specific conservative DNA sequence. DNG™-plus DNA kit is suggested for extraction. DNA extraction from the wound or biopsy requires Protease treatment and the DNP™ extraction kit is recommended. positive control is provided to ensure the accuracy of the detection.

Application Kit:

Determine the quantity of Leishmania sp. kinetoplast DNA (kDNA) in humans



Ordering Information

| Cat.NO. | Product | Pack Size (Reaction) |
|---------|---|----------------------|
| PK3061 | Leishmania sp.PCR Determination and Detection Kit | 50 |

Mycobacterium tuberculosis PCR Detection Kit

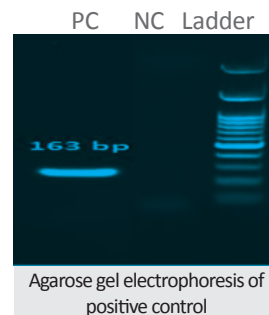
This kit is designed to qualitative detection of Mycobacterium tuberculosis (MTB) DNA in humans based on the PCR reaction. The kit has all the necessary ingredients for the PCR reaction.

Specifications kit:

Detection is based on the amplification of a specific conservative DNA sequence. DNA can be extracted by SinaClon DNP™ Kit. The ability to detect Mycobacterium tuberculosis (MTB) DNA in humans. positive control is provided to ensure the accuracy of the detection.

Application Kit:

Determine the qualitative value of Mycobacterium tuberculosis (MTB) DNA in humans



Ordering Information

| Cat.NO. | Product | Pack Size (Reaction) |
|---------|----------------------|----------------------|
| PK3071 | MTB PCR Detectin kit | 50 |

Helicobacter pylori PCR Detection Kit

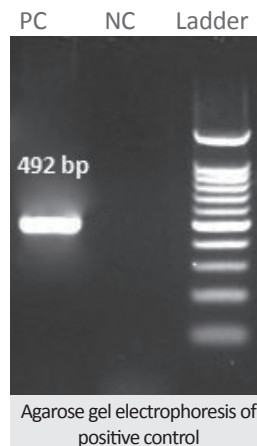
This kit is designed to qualitative detection of Helicobacter pylori DNA in culture or human gastric biopsy based on PCR reaction. The kit has all the necessary ingredients for the PCR reaction.

Specifications kit:

DNA can be extracted by SinaClon DNP™ Kit. | The ability to detect Helicobacter pylori DNA in humans | positive control is provided to ensure the accuracy of the detection.

Application Kit:

Determine the quality of Helicobacter pylori DNA



Ordering Information

| Cat.NO. | Product | Pack Size (Reaction) |
|---------|---------------------------------------|----------------------|
| PK3011 | Helicobacter pylori PCR Detection Kit | 20 |

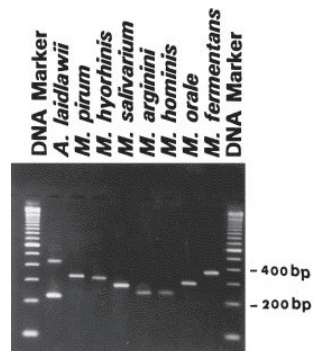
Mycoplasma PCR Detection Kit

Mycoplasma PCR Detection Kit utilizes PCR to detect the presence of mycoplasma contamination in cultured cells.

The kit has all the necessary ingredients for the PCR reaction. A detection system utilizes a primer mixture in a nested polymerase chain reaction for increases sensitivity. The kit detects 8 species of Mycoplasma, Acholeplasma, including the *M.arginini*, *M.salivarium*, *M.pirum*, *M. orale*, *M.hyorhinis*, *M.hominis*, *M. fermentans* and *A. laidlawii*. Positive samples can easily be detected on the gel which can be identified from 219 bp to 426 bp of the second PCR product.

Application Kit:

Detection of Mycoplasma



Ordering Information

| Cat.NO. | Product | Pack Size (Reaction) |
|---------|------------------------------|----------------------|
| PK3132 | Mycoplasma PCR Detection Kit | 20test |

Toxoplasma PCR Detection Kit

This kit is designed to qualitative detection of *T. gondii* DNA in infected samples by the method of Polymerase Chain Reaction.

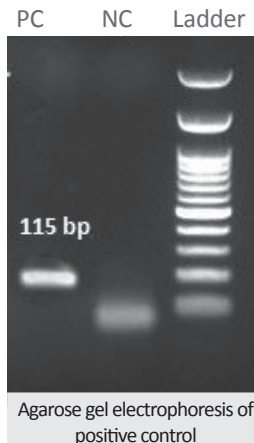
Primer set is specific to the highly specific repetitive region of B1 gene. This primer set, allows for detection of 45 copies of *Toxoplasma gondii*.

Specifications kit:

DNA can be extracted by SinaClon DNP™ Kit.

Application Kit:

qualitative detection of *Toxoplasma*.



Ordering Information

| Cat.NO. | Product | Pack Size (Reaction) |
|---------|------------------------------|----------------------|
| PK3141 | Toxoplasma PCR Detection Kit | 50 |

Epstein-Barr virus(EBV) PCR Detection Kit

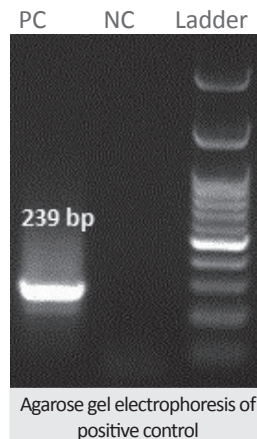
This kit is destined for qualitative detection of EBV DNA in infected samples by the method of Polymerase Chain Reaction. Primer set is specific to the highly specific repetitive region of BLLF1 gene. This primer set, allows for detection of 30 copies of Epstein – Barr virus.

Specifications kit:

DNA can be extracted by SinaClon DNP™ Kit.

Application Kit:

qualitative detection of EBV DNA in human specimens.



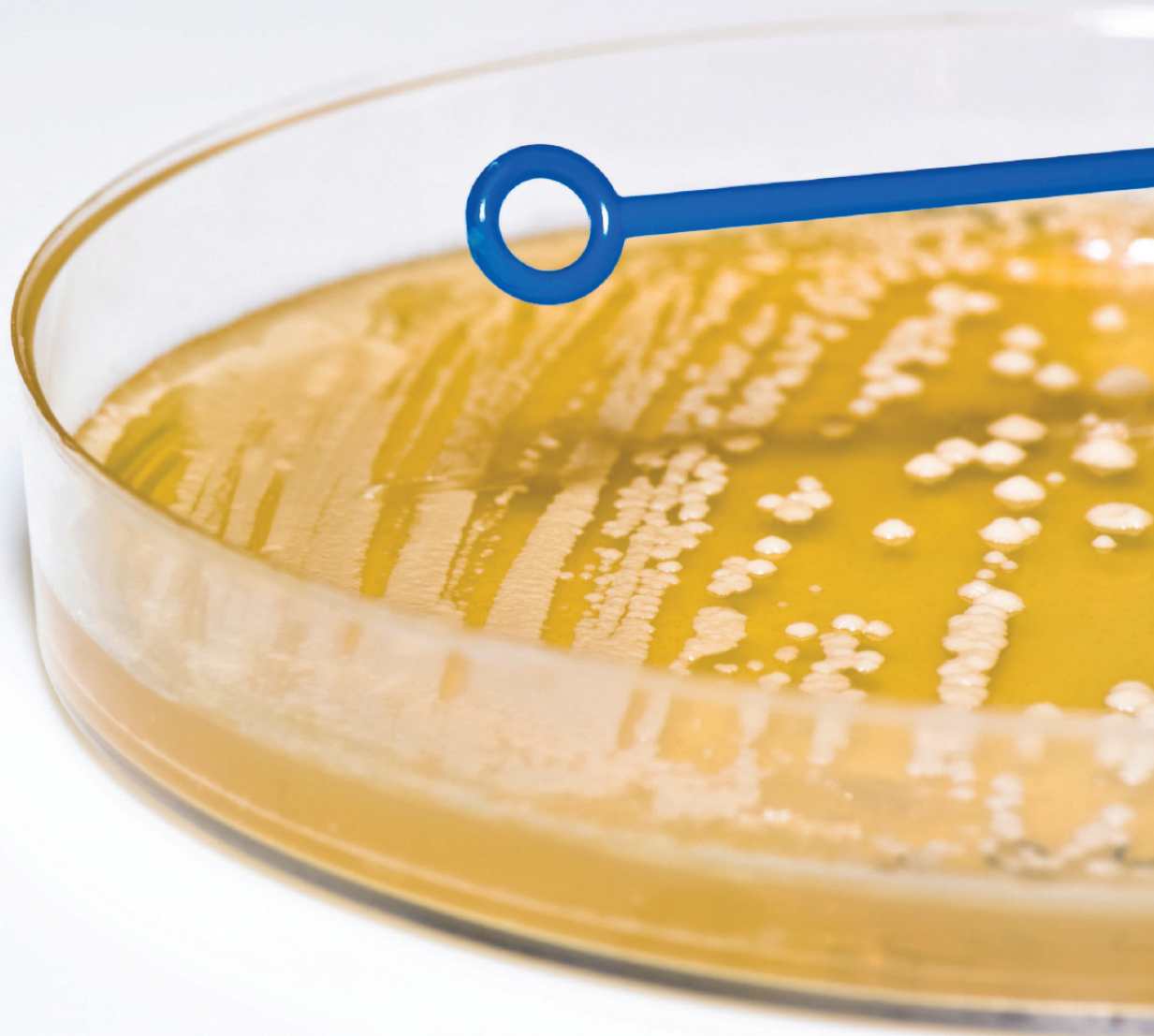
Ordering Information

| Cat.NO. | Product | Pack Size (Reaction) |
|---------|---|----------------------|
| PK3151 | Epstein-Barr virus (EBV) PCR Detection Kit | 50 |

Note



PCR Cloning Kits

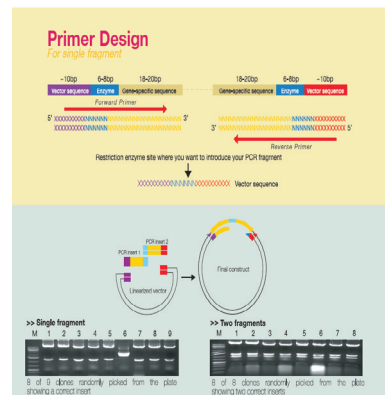


PCR TA Cloning kit is designed for rapid and efficient cloning of PCR products with 3'-dA overhangs.

The kit use linearized pTG19-T vector with 3'-dT overhangs to prevent vector self- ligation , therefore resulting in high percentage of recombinant clones and low background.

Cloning parts with end 3'-dA overhangs

| | 20x | Sample 5x |
|--------------------------------|--------|-----------|
| 1 - Master mix 2x | 500ul | 125ul |
| 2 - Sterile DW | 900ul | 225ul |
| 3 - pTG19-T vector (25ng/μl) | 40ul | 10ul |
| 4 - 10X Buffer Ligase | 20ul | 5ul |
| 5 - T4 DNA Ligase (350u/μl) | 12ul | 3ul |
| 6 - Control insert (12.5ng/μl) | 20ul | 5ul |
| 7 - Ampicillin (50 mg/ml) | 1000ul | 500ul |
| 8 - IPTG 100mM | 1600ul | 400ul |
| 9 - X-Gal (20 mg/ml) | 2000ul | 500ul |
| 10 - LB medium | 60ml | 15ml |
| 11 - Buffer S | 14.4ml | 3.6ml |
| 12 - M13 Forward Primer | 20ul | 5ul |
| 13 - M13 Reverse Primer | 20ul | 5ul |



Ordering Information

| Cat.NO. | Product | Pack Size (Reaction) |
|---------|-----------------|----------------------|
| CL5841 | PCR Cloning Kit | 20test |



IPTG

IPTG (isopropyl-beta-D-thiogalactopyranoside) increases the activity of beta-galactosidase enzyme. IPTG induces lacZ gene expression.

Ordering Information

| Cat.NO. | Product | Pack Size (Reaction) |
|---------|---|----------------------|
| CL5811 | IPTG (Isopropyl-beta-D-thiogalactopyranoside) | 1g |

X-Gal

X-Gal (5-bromo-4-chloro-3-indolyl-beta-D-galactopyranoside) is most commonly used in conjunction with IPTG in the screening of blue / white colonies for the detection of non-recombinant (blue) colonies.

Ordering Information

| Cat.NO. | Product | Pack Size (Reaction) |
|---------|---|----------------------|
| CL5821 | X-Gal (5-Bromo-4-Chloro-3-Indolyl-beta-D-galactopyranoside) | 100mg |



T4 DNA Ligase

T4 DNA Ligase catalyzes the formation of a phosphodiester bonds between 5' phosphate and 3' hydroxyl termini in duplex DNA/RNA. This enzyme can join-blunt end and cohesive-end termini, repair single stranded nicks in duplex DNA, RNA or DNA/RNA hybrids.

Source: E. Coli cells with a cloned gene 43 of bacteriophage T4.

Specifications kit:

The enzyme has an exonuclease activity of 3' to 5' but does not have 5' to 3' exonuclease activity .

Application Kit:

Cloning

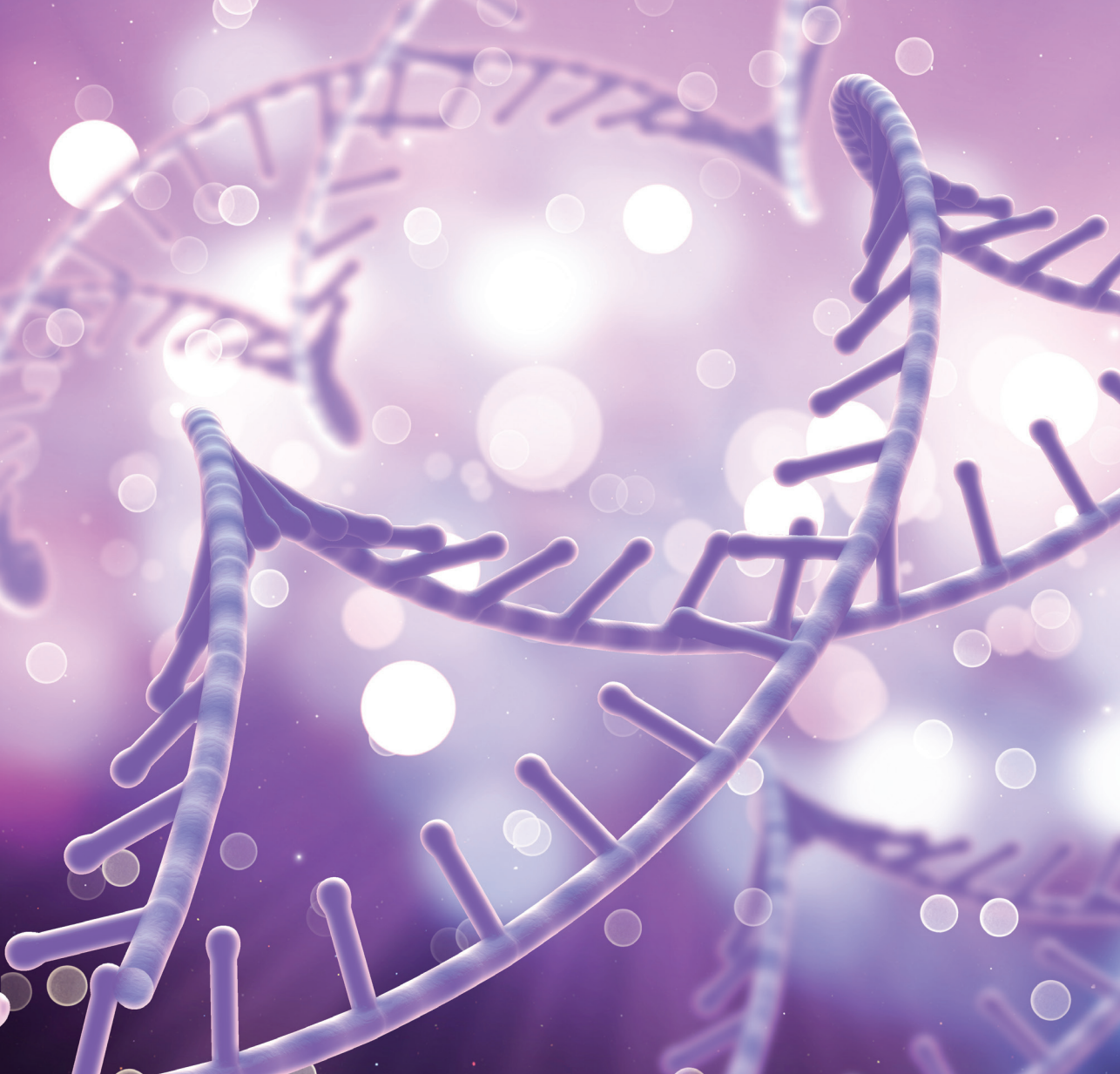
Ordering Information

| Cat.NO. | Product | Pack Size (Reaction) |
|---------|---------------|----------------------|
| MO5454 | T4 DNA Ligase | 100u |
| MO5455 | T4 DNA Ligase | 200u |
| MO5451 | T4 DNA Ligase | 5000 u |

Note



PCR & Real Time PCR Master Mix



PCR master kit

This kit contains all the essential ingredients for the PCR reaction.

Specifications kit:

This kit contains all the essential ingredients for the PCR reaction. Saves time and reduces contamination due to reduced number of pipetting steps. Suitable for a variety of DNA amplification.

Application Kit:

Application of PCR molecular biology

| | |
|-----------------------|-------|
| Master Mix | 1 ml |
| Control DNA (4 pg/μl) | 50 μl |
| Forward Primer | 10 μl |
| Reverse primer | 10 μl |
| Distilled Water | 3 ml |
| Mineral Oil | 1 ml |

Ordering Information

| Cat.NO. | Product | Pack Size (Reaction) |
|---------|--|----------------------|
| MM2001 | PCR master kit 400T (Master Mix, Control DNA and Primer) | 400 |
| MM2002 | PCR Master Kit 80T (Master Mix, Control DNA and Primer) | 80 |
| MM2011 | PCR Master Mix 2x, 80Test | 80 |



Reddy to use PCR Master mix 2x .

This kit contains all the essential ingredients for the PCR reaction. After PCR, electrophoresis can be operated without the addition of loading buffer.

Specifications kit:

This kit contains all the essential ingredients for the PCR reaction. Saves time and reduces contamination due to reduced number of pipetting steps.

Application Kit:

Application of PCR molecular biology

Composition of PCR Master Mix (2X):

0.08 units/ μ l Taq DNA polymerase in reaction buffer, 3 mM MgCl_2 , 4 mM dATP, 0.4 mM dCTP, 0.4 mM dGTP and 0.4 mM dTTP.

Ordering Information

| Cat.NO. | Product | Pack Size (Reaction) |
|---------|--------------------------------|----------------------|
| MM2062 | Reddy to use PCR Master mix 2x | 100 |

TE Buffer

| Ordering Information | | |
|----------------------|-----------|----------------------|
| Cat.NO. | Product | Pack Size (Reaction) |
| EP5071 | TE Buffer | 5ml |

MgCl₂

| Ordering Information | | |
|----------------------|-------------------|----------------------|
| Cat.NO. | Product | Pack Size (Reaction) |
| MM2091 | MgCl ₂ | 500 µl |

6x Loading Buffer

| Ordering Information | | |
|----------------------|-------------------|----------------------|
| Cat.NO. | Product | Pack Size (Reaction) |
| MM2121 | 6x Loading Buffer | 1ml |
| MM2123 | 6x Loading Buffer | 50ml |



dNTP Mix

| Ordering Information | | |
|----------------------|----------|----------------------|
| Cat.NO. | Product | Pack Size (Reaction) |
| MM2081 | dNTP Mix | 100 µl |
| MM2082 | dNTP Mix | 500 µl |

DNA Safe Stain

| Ordering Information | | |
|----------------------|----------------|----------------------|
| Cat.NO. | Product | Pack Size (Reaction) |
| EP5082 | DNA Safe Stain | 1ml |

10X PCR Buffer

| Ordering Information | | |
|----------------------|--------------------|----------------------|
| Cat.NO. | Product | Pack Size (Reaction) |
| MM2101 | 10X PCR Buffer | 1ml |
| MM2111 | 10X PCR AMS Buffer | 1 ml |

Sina SYBR Blue HS-qPCR (No-Rox)

SinaSYBR Blue HS-qPCR Mix, 2x is developed for quantitative real-time PCR. SinaSYBR Blue HS-qPCR Mix, 2x includes all of components necessary to PCR except for DNA template and primers.

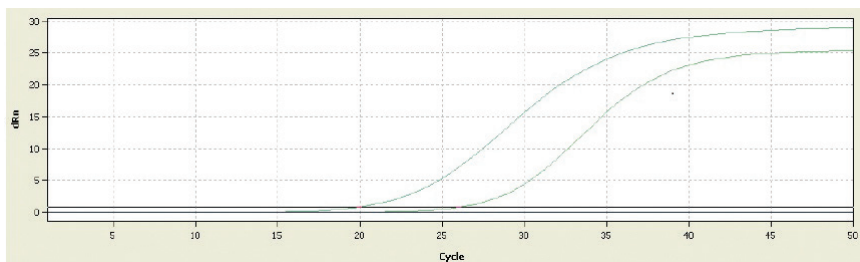
sterile and PCR grade water is supplied.

Specifications kit:

Sensitivity: Detect target patterns with low copy number | detect 1 - 10 copy of target molecules | Repeatable and cost-effective | Compatible with all kinds of Real-Time PCR devices

Application Kit:

Application in Real-Time PCR molecular biology



Ordering Information

| Cat.NO. | Product | Pack Size (Reaction) |
|---------|-----------------------------|----------------------|
| MM2171 | Sina SYBR Blue HS-qPCR (2x) | 100 |



SinaProbe HS-qPCR- Hi-ROX

SinaProbe HS-qPCR Hi-ROX Mix,(2x) is developed for quantitative real-time PCR with fluorescent probes on PCR platforms that use ROX as a reference dye. SinaProbe HS-qPCR Hi-ROX Mix,2x includes all the components necessary for PCR except for DNA template, primers and probe.

The mix is optimized for consistent and efficient real-time hot-start PCR of genomic, plasmid and viral DNA samples.

Specifications kit:

Sensitivity: Detection of target patterns with low copy number | detect 1 - 10 copy of target molecules | Repeatable and cost-effective | Compatible with all kinds of Real-Time PCR devices.

Application Kit:

Application in Real-Time PCR molecular biology | Real-Time PCR

Ordering Information

| Cat.NO. | Product | Pack Size (Reaction) |
|---------|--------------------------------|----------------------|
| MM2161 | SinaProbe HS-qPCR- Hi-ROX (2x) | 100 |

SinaClon First Strand cDNA Synthesis Kit

SinaClon First Strand cDNA synthesis Kit is specially designed to provide reliable synthesis of full-length cDNA from mRNA or total RNA templates. M-MuLV RNase H- synthesizes complementary DNA strand initiating from a specific primer, oligo(dT)₁₈ or random hexamer. The absence of RNase-H enhances the synthesis of long cDNA as the RNA strand does not degrade in DNA-RNA hybrid during first strand cDNA synthesis. The RNase inhibitor, supplied with the kit, effectively protects RNA from degradation at temperatures up to 55°C.

Specifications kit:

The lack of RNase H leads to the synthesis of a long cDNA strand of RNA pattern up to 10Kb.

The ability to select different primers of oligo d (T) or hexamer random, and also different enzymes in relation to the synthesis pattern has Polymerase Taq DNA and MaxTaq DNA Polymerase.

Application Kit:

cDNA synthesis

Kit Contents:

| | |
|---------------------------------------|--------|
| M-MuLV Reverse Transcriptase(200u/μl) | 10000u |
| RNase inhibitor(40u/μl) | 1000u |
| 10X Buffer M-MuLV | 100 μl |
| 10mM dNTPs mix | 100 μl |
| Oligo(dT) ₁₈ | 50μl |
| Random Hexamer 100μM | 50μl |
| DEPC-treated water | 1ml |

Ordering Information

| Cat.NO. | Product | Pack Size (Reaction) |
|----------------|---|-----------------------------|
| RT5201 | SinaClon First Strand cDNA Synthesis Kit | 50 |



M-MuLV Reverse Transcriptase

(M-MuLV) Reverse Transcriptase is an RNA-dependent DNA polymerase. It can synthesize a complementary DNA strand initiating from a primer using RNA as a template.

Specifications kit:

This enzyme possesses RNA-dependent and DNA-dependent activity and also has Ribonuclease H activity that is specific to RNA in the DNA-RNA hybrid.

Application Kit:

First strand cDNA synthesis. | DNA labeling. | RNA analysis by primer extension

| Ordering Information | | |
|----------------------|-------------------------------|----------------------|
| Cat.NO. | Product | Pack Size (Reaction) |
| MO5431 | M- MuLV Reverse Transcriptase | 10000u |

Ribonuclease Inhibitor

The Ribonuclease Inhibitor inhibits the activity of RNases A, B, and C by binding to all of them in an uncompetitive manner.

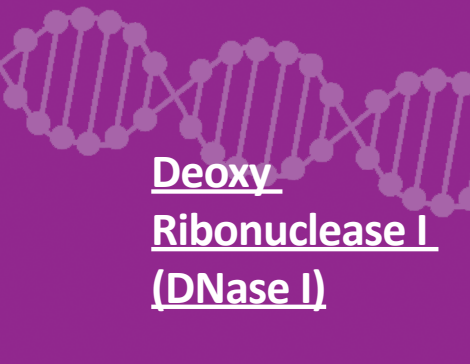
Specifications kit:

This enzyme has no inhibitory effect on RNases 1, T1, T2, H, U1, U2, and CL3.

Application Kit:

In vitro transcription. | In vitro translation

| Ordering Information | | |
|----------------------|------------------------|----------------------|
| Cat.NO. | Product | Pack Size (Reaction) |
| ME4309 | Ribonuclease Inhibitor | 2500 u |



Deoxy Ribonuclease I (DNase I)

Endonucleases that performs digestion of single-strand or double strand of DNA.

Specifications kit:


An endonuclease that performs digestion of single-strand of DNA. This enzyme breaks the phosphodiester bonds via hydrolyzing and then release of oligo-deoxyribonucleotides at the ends of 5-phosphate and 3'-OH.

Application Kit:

For RNA work

Ordering Information

| Cat.NO. | Product | Pack Size (Reaction) |
|---------|--------------------|----------------------|
| MO5401 | Dnase I.RNase-free | 500U |



Ribonuclease A (RNase A)

Ribonuclease A (RNase A), is a type of nuclease that specifically breaks single-stranded RNA at the ends of C and U.

Specifications kit:

Separately split single-stranded RNA at the ends of C and U.

Application Kit:

For RNA protection assays, RNA work, RNA removal in plasmid or DNA extraction, Removal of RNA in the preparation of recombinant protein.

Ordering Information

| Cat.NO. | Product | Pack Size (Reaction) |
|---------|---|----------------------|
| MO5411 | Ribonuclease A. DNase and protease free | 20mg/ml |



Proteinase K

Proteinase K is an endolytic protease that cleaves peptide bonds at the carboxylic sides of aliphatic, aromatic or hydrophobic amino acids. The Proteinase K is classified as a serine protease. The smallest peptide to be hydrolyzed by this enzyme is a tetrapeptide.

Ordering Information

| Cat.NO. | Product | Pack Size (Reaction) |
|---------|--------------|----------------------|
| MO5421 | Proteinase K | 20mg/ml |

Nuclease-free -Water

Nuclease-Free Water that can be used for molecular biology applications.

Ordering Information

| Cat.NO. | Product | Pack Size (Reaction) |
|---------|---------------------|----------------------|
| CH8161 | Nuclease free water | 5 ml |

Note



Protein Marker & DNA Ladder

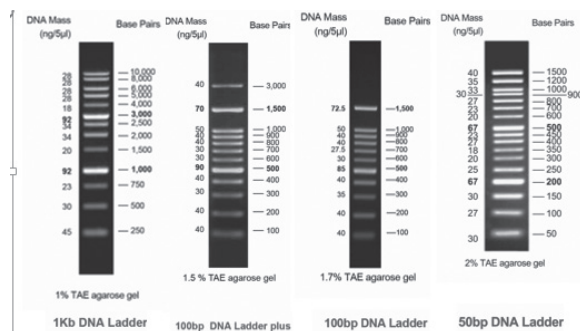


DNA Ladder (Ready to Use)

As molecular weight standards for detected DNA in both agarose and acrylamide (SDS) gel electrophoresis are used. These ladders are used to measure the PCR product and ds DNA.

Application Kit:

As a PCR product marker.



Ordering Information

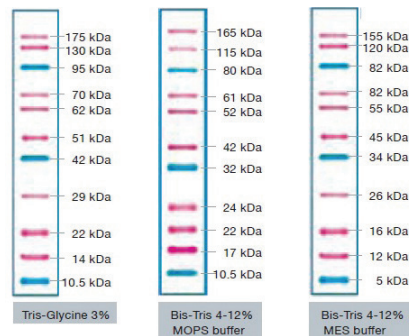
| Cat.NO. | Product | Pack Size (Reaction) |
|---------|--|----------------------|
| SL7021 | Ladder 50bp (ready to use) 50-1500 | 500 µl |
| SL7031 | Ladder 100bp (ready to use) 100-1500 bp | 500 µl |
| SL7041 | Ladder 100bp Plus(ready to use) 100-3000bp | 500 µl |
| SL7051 | Ladder 1 kb (ready to use) 250-10000bp | 500 µl |

Prestained Protein Ladder

The prestained Protein Ladder is designed for monitoring protein separated during SDS polyacrylamid gel electrophoresis, verification of Western transfer efficiency on membranes and for approximate sizing of proteins.

Application Kit:

As an acridine amid gel marker.



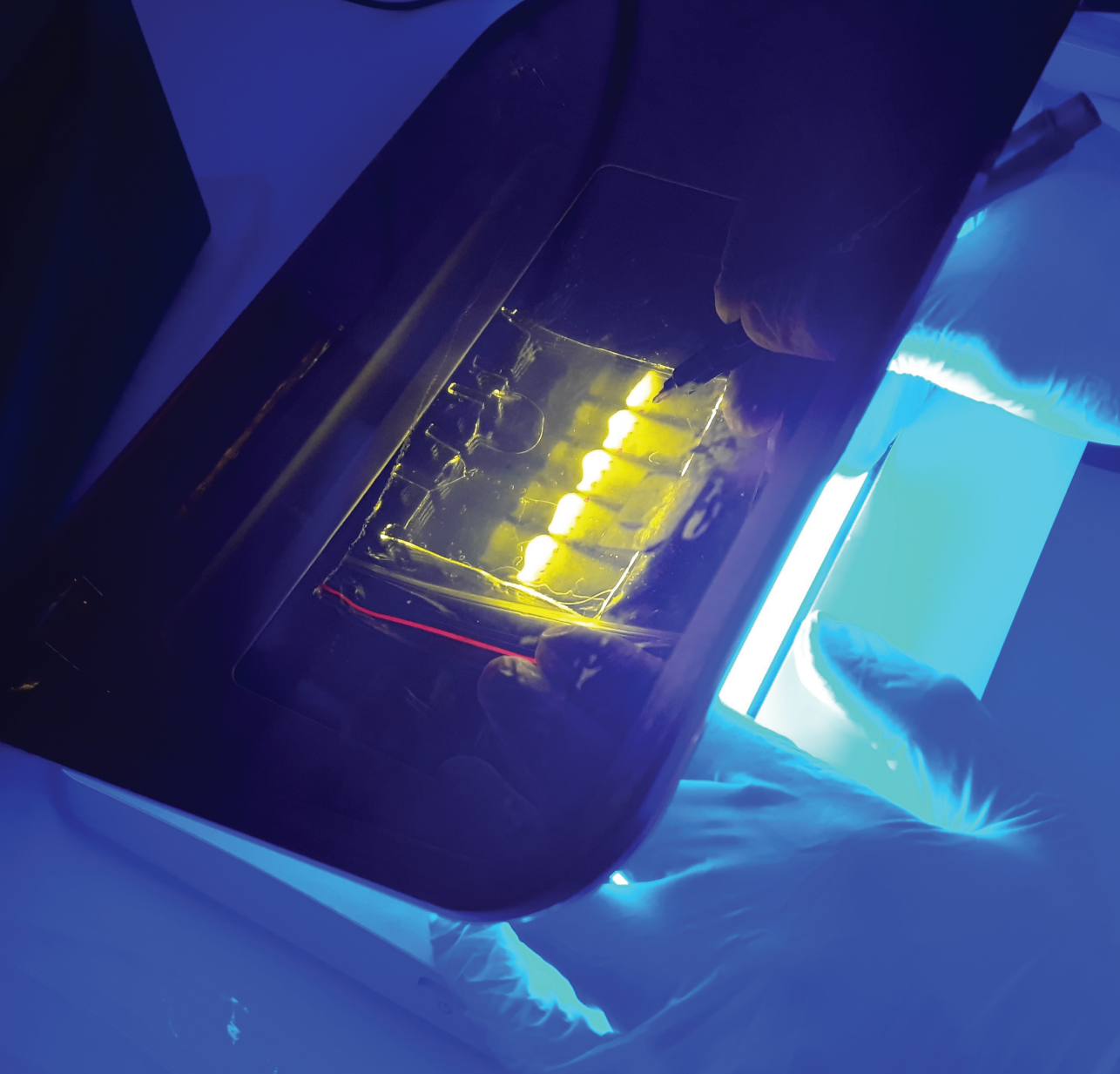
Ordering Information

| Cat.NO. | Product | Pack Size (Reaction) |
|---------|------------------------------------|----------------------|
| SL7001 | Prestained Protein Ladder . 10-250 | 500µl |
| SL7002 | Prestained Protein Ladder , 10-250 | 100µl |
| SL7011 | Prestained Protein Ladder , 10-170 | 500µl |
| SL7012 | Prestained Protein Ladder , 10-170 | 100µl |

Note



Primer & Probe





Primer

A single-stranded nucleic acid, which is the starting point for DNA synthesis by DNA polymerase, and determines a piece of DNA that is replicated in the PCR reaction. Selection of the specific primer sequencing for a gene is specialized and requires experience and knowledge.

Advantages of Primer Synthesis in Sina Clone Company:

- Delivery in three days
- Instant delivery
- The right price
- Scientific support
- Quick tracking on technical issues as soon as possible
- All synthesized primers are purified by RP –OPC method.
- Perform quality control process for all primers
- High precision primer synthesis device
- No probability of mutation
- Possibility of easy ordering via telephone or Internet
- Salt-free synthesized primers at SinaClon

| | |
|--------|---|
| PS4101 | Purified Primer Synthesis, RP-OPC, OD 2-4, 6-10 Mer, Per Mer |
| PS4111 | Purified Primer Synthesis, RP-OPC, OD 5, 6-10 Mer, Per Mer |
| PS4121 | Purified Primer Synthesis, RP-OPC, OD 10, 6-10 Mer, Per Mer |
| PS4131 | Purified Primer Synthesis, RP-OPC, OD 2-4, 11-35 Mer, Per Mer |
| PS4141 | Purified Primer Synthesis, RP-OPC, OD 5, 11-35 Mer, Per Mer |
| PS4151 | Purified Primer Synthesis, RP-OPC, OD 10, 11-35 Mer, Per Mer |
| PS4161 | Purified Primer Synthesis, RP-OPC, OD 15, 11-35 Mer, Per Mer |
| PS4171 | Purified Primer Synthesis, RP-OPC, OD 2_4, 11-35 Mer, Per Mer |
| PS4181 | Purified Primer Synthesis, RP-OPC, OD 5 over 35 Mer, Per Mer |

| | |
|--------|--|
| PS4191 | Purified Primer Synthesis, RP-OPC, OD 10 over35 Mer, Per Mer |
| PS4201 | Purified Primer Synthesis, RP-OPC, OD 15 over35 Mer, Per Mer |
| PS4261 | Purified Primer Synthesis, Page Purification, OD 2-4,15-35 Mer, Per Mer |
| PS4271 | Purified Primer Synthesis, Page Purification, OD 5 ,15-35 Mer, Per Mer |
| PS4311 | Purified Primer Synthesis, Page Purification, OD 2-4, over 35 Mer, Per Mer |
| PS4321 | Purified Primer Synthesis, Page Purification, OD 5 over35 Mer, Per Mer |
| PS4341 | Purified & Inosine Modified Primer Synthesis, RP-OPC, OD 5, Per Mer |
| PS4371 | FAM modification, OD 2 |
| PS4381 | FAM modification, OD 4 |
| PS4411 | TAMRA-3 modification, OD 2 |
| PS4421 | TAMRA-3 modification, OD 4 |
| PS4451 | TAMRA modification, OD 2 |
| PS4461 | TAMRA modification, OD 4 |
| PS4491 | HEX modification, OD 2 |
| PS4501 | HEX modification, OD 4 |
| PS4531 | TET modification, OD 2 |
| PS4541 | TET modification, OD 4 |
| PS4571 | BHQ-3 modification, OD 2 |
| PS4581 | BHQ-3 modification, OD 4 |
| PS4651 | JOE modification OD2 |
| PS4661 | JOE modification OD4 |
| PS4611 | Probe PAGE purification, OD 2 |
| PS4081 | Oligo dT |
| PS4091 | Random Hexamer |



| | |
|--|--|
|  <p>جمهوری اسلامی ایران وزارت بهداشت، درمان و آموزش پزشکی</p> | <p>نماینده ملی: 10320223254</p> <p>نام شرکت: تولیدی بازرگانی سما کالون (پاسنولیت محدود)</p> <p>تاریخ تأیید کارگروه: 1394/12/22</p> <p>مدت زمان استفاده از مزایای قانون: دو سال</p> <p>وضعیت شرکت: تولید کننده کالا و خدمت دانش بنیان</p> |
|--|--|

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