Реактивы для электрофореза нуклеиновых кислот

Технические характеристики

Виды товаров: реагенты для электрофореза нуклеиновых кислот, ДНК-маркеры, РНК-маркеры.

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Servicebio® 1 x TAE Electrophoresis Buffer (Ready-to-Use)

Cat. No.: G2151

Product Information

Product Name	Cat. No.	Spec..
1 x TAE electrophoresis buffer (ready-to-use)	G2151-1L	1 L

Product Description/Introduction

This product is ready-to-use 1×TAE electrophoresis buffer for nucleic acid molecules agarose gel and polyacrylamide gel electrophoresis. It can be used as electrophoresis buffer and gel preparation buffer, and can be used for the electrophoretic separation of genomic DNA, large superhelical DNA, RNA and DNA larger than 1500 bp, and recovered DNA fragments. The main components of the product are 40 mM Tris-acetate, 1.0 mM EDTA, pH 8.4-8.6@25℃.

Storage and Shipping Conditions

Transportation and storage at room temperature, valid for 12 months.

Servicebio® 50×TAE Buffer

Cat. #：G3001-500ML

Product Information

Product Name	Cat. No.	Spec.
50×TAE Buffer	G3001-500ML	500 mL

Product Description/Introduction

TAE (Tris-Acetate-EDTA buffer) is the most widely used nucleic acid electrophoresis buffer in biology. It is mainly used for DNA agarose gel electrophoresis and is also recommended for DNA recovery. Our product is a 50× concentrated solution, and if there is any precipitate, it can be dissolved by placing the bottle in a 37℃ water bath without affecting its performance. The main components of the product are 2 mol/L Tris-acetate and 0.1 mol/L EDTA. To obtain a 1× TAE electrophoresis buffer with a pH of 8.0-8.3 at 25℃, dilute the 50× TAE buffer with distilled water at a ratio of 1:50, resulting in a solution with 40 mM Tris-acetate and 2 mM EDTA.

Storage and Shipping Conditions

Ship and store at room temperature, valid for 12 months.

Note

Servicebio® 10×TBE Buffer

Cat. #：G3002-250ML

Product Information

Product Name	Cat.No.	Spec.
10×TBE Buffer	G3002-250ML	250 mL

Product Description/Introduction

TBE buffer is a buffer salt solution for nucleic acid electrophoresis often used in biology, mainly for agarose gel electrophoresis of DNA. The main component of TBE is Tris-Borate-EDTA, which has strong buffering capacity, suitable for longer electrophoresis, higher resolution, and good separation effect when electrophoresing fragments smaller than 1kb. The Borate component of TBE buffer affects the DNA recovery efficiency as well as the subsequent enzyme reaction, and the use of TAE buffer is recommended if agarose gel electrophoresis recovery experiments of DNA fragments are to be performed. This product is a 10 x concentrate. If the product precipitates, please place it in a 37℃ water bath to dissolve it, which will not affect the use. The components of 10×TBE Buffer are 890 mmol/L Tris-borate, 20 mmol/L EDTA. A 1× TBE electrophoresis buffer of 89 mM Tris-boric acid, 2 mM EDTA, pH 8.2-8.4 at 25°C can be obtained by 10-fold dilution with pure water.

Storage and Shipping Conditions

Ship and store at room temperature, valid for 12 months.

Note

For use, dilute 10 times with distilled water or ultrapure water.

Servicebio® 1 x TBE Electrophoresis Buffer (Ready-to-Use)

Cat. No.: G3005

Product Information

Product Name	Cat. No.	Spec..
1 x TBE electrophoresis buffer (ready-to-use)	G3005-1L	1 L

Product Description/Introduction

TBE buffer is a buffer salt solution for nucleic acid electrophoresis, mainly used for agarose gel electrophoresis of DNA.The main components of TBE are Tris-Borate-EDTA, which has a strong buffering capacity and is suitable for long time electrophoresis, with a high resolution, and the separation effect is good when electrophoresing the fragments less than 1kb.The Borate component of TBE buffer affects the recovery efficiency and subsequent enzyme reaction of DNA fragments. The Borate component in TBE buffer will affect the DNA recovery efficiency and subsequent enzyme reaction, if you want to carry out agarose gel electrophoresis recovery of DNA fragments, it is recommended to use TAE buffer. This product is a 1× ready-to-use solution.

Storage and Shipping Conditions

Transportation and storage at room temperature; valid for 12 months.

Note

1. If the product appears precipitation precipitation, please put it in 37 ℃ water bath to make it dissolve, does not affect the use.
2. For your safety and health, please wear lab coat and disposable gloves.

Servicebio® 6×DNA Loading Buffer

Cat. #：G3011-500UL

Product Information

Product Name	Cat. No.	Spec.
6×DNA Loading Buffer	G3011-500UL	500 μL

Product Description/Introduction

6×DNA Loading Buffer is a six-fold concentrated DNA loading buffer with bromophenol blue as indicator, containing EDTA, glycerol and other ingredients, and still has a large specific gravity after diluted to 1×, which ensures that the DNA samples sink to the spotting wells, the color of bromophenol blue is clear and not diffuse, and that the mobility of double-stranded linear DNA with 300 bp in the agarose gel (0.5-1.4%) is the same as that of double-stranded linear DNA with 300 bp. same as 300 bp double-stranded linear DNA.

Storage and Shipping Conditions

Ship with wet ice; store at 2-8℃, valid for 12 months.

Assay Protocol

Every 5 μL of DNA sample was mixed with 1 μL of 6×DNA Loading Buffer and added to the DNA electrophoresis gel spotting wells.

Note

1. This product cannot be used as a Loading Buffer for protein gel electrophoresis.
2. For your safety and health, please wear appropriate protective eyewear, clothing, and gloves.

Related Products

Cat. No.	Product Name	Spec.
G3001	50×TAE	500 mL
G3002	10×TBE	250 mL
G3606	SerRed nucleic acid dye (10000×，water soluble)	100 μL，500 μL
G5056	High purity hypotonic agarose （Agarose）	5 g，100 g
G3362	GN8K DNA Marker	500 μL，5×500 μL
G3366	GN100bp DNA Ladder II	500 μL，5×500 μL

Servicebio® 20×SSC Buffer

Cat #: G3015-100ML

Product Information

Product Name	Cat. No.	Spec.
20×SSC Buffer	G3015-100ML	100 mL

Product Description/Introduction

SSC (Saline sodium citrate) buffer is a classic blotting and hybridization treatment solution in molecular biology. It is used for denaturation and washing in various hybridization experiments. The main components are sodium chloride and sodium citrate. The sodium citrate acts as a buffer and the salt ion binds to negatively charged nucleic acids making them electrically neutral and facilitating the binding of the probe to the target sequence. SSC solution can also be used for the preparation of SDS-PAGE electrophoresis separation gel for nucleic acid hybridization. Commonly used in concentrations of 2× and 0.5×. The 2×SSC is usually used to wash the membrane with high salt to wash away some nonspecific bound probes. The 0.5 ×SSC is often used to wash the membrane with low salt to increase the tightness of nucleic acid chain and the repulsion between RNA / DNA. The product is 20× concentrated solution, pH 7.0, prepared with pyrogen-free ultrapure water and filtered by microporous membrane for sterilization. The main ingredients are 3.0 M sodium chloride and 0.3 M sodium citrate.

Storage and Shipping Conditions

Ship and store at room temperature, valid for 24 months.

Assay Protocol/Procedures

According to the application of requirements, it is recommended to dilute with sterile water.

Note

1. This product is a concentrated solution and needs to be diluted before use. The diluted buffer solution is recommended to be used up on the same day and can be temporarily stored at 4℃.
2. Pay attention to avoid microbial contamination during using to prevent any influence on the experimental results.
3. For your safety or health, please wear safety glasses, gloves, or protective clothing.

Servicebio® 2×RNA Loading Buffer

Cat. #：G3370-500UL

Product Information

Product Name	Cat.No.	Spec.
2×RNA Loading Buffer	G3370-500UL	500 μL

Product Description/Introduction

2 × RNA Loading Buffer is designed for loading RNA samples for electrophoresis on agarose or polyacrylamide gels. It contains electrophoresis tracking dyes bromophenol blue, and denaturing agent formamide.

Storage and Shipping Conditions

Ship with wet ice; store at -20℃,valid for 12 months.

Assay Protocol / Procedures

1. Add an equal volume of 2×RNA loading buffer to your RNA sample and mix well.
2. Heat the mixture at 70℃ for 10 min.
3. Chill on ice and spin down prior to loading on a gel.

Note

1. Avoid RNA degradation caused by RNase contamination, please use sterile and free of enzymes consumables.
2. The product is also suitable for oligomerization single strand DNA samples in gel electrophoresis.
3. For your safety and health, please wear protective eyewear, clothing, and gloves.

Servicebio® 10×MOPS Buffer

Cat. #：G3373-100ML

Product Information

Product Name	Cat. No.	Spec.
10×MOPS Buffer	G3373-100ML	100 mL

Product Description/Introduction

The 10×MOPS Buffer is a MOPS-based buffer (containing sodium acetate and EDTA) for use as a running buffer in denaturing formaldehyde agarose gel systems. This product is prepared with nuclease-free water and filtered by microporous filter membrane. The product has no RNase activity. contains 0.4 M MOPS, 0.1 M sodium acetate, 10 mM EDTA, pH 7.0 ± 0.1.

Storage and Shipping Conditions

Ship and store at room temperature; Avoid direct sunlight, valid for 24 months.

Assay Protocol / Procedures

Dilute with nuclease-free water **(G4700 or G3004 recommended)** to 1X before use.

Note

1. Avoid RNA degradation caused by RNase contamination, please use sterile and free of enzymes consumables.
1. The product is easy to turn yellow when exposed to light, so it is recommended to store in a cool and dark place. When the solution is light yellow, it does not affect to use. If the color is too dark, it is recommended to stop using.
2. For your safety and health, please wear protective eyewear, clothing, and gloves.

Servicebio® 1×TAE buffer (Powder)

Cat. #：G3374

Product Information

Product Name	Cat.No.	Spec.
1×TAE buffer (Powder)	G3374-2L	2 L

Product Description/Introduction

This product is 1×TAE buffer (Powder), can be prepared into ready-to-use TAE electrophoresis buffer. The Ready-to-use buffer composition is 40 mM Tris-acetic acid, 2 mM EDTA., pH 8.0-8.6@25℃.

It is suitable for nucleic acid molecular agarose gel and polyacrylamide gel electrophoresis. It can be used as electrophoresis buffer and gel preparation buffer, and can be used for electrophoresis separation of genomic DNA, macromolecular superhelix DNA, RNA and DNA greater than 1500 bp, and recovered DNA fragments. This product powder is fine, dissolve quickly, easy to use.

Storage and Shipping Conditions

Ship and store at room temperature, valid for 24 months.

Assay Protocol/Procedures

Dissolve a bag of dry powder with 1500 mL pure water or distilled water until it is clarified, and let water be added to 2 L to obtain 1×TAE buffer.

Note

1. TAE buffer has a small buffer capacity and is not recommended for prolonged electrophoresis (e.g. overnight).
2. For the accuracy of the experiment, it is recommended to replace the electrophoresis solution in time.
3. This product is only used for scientific research by professionals, and shall not be used for clinical diagnosis or treatment, or for food or medicine.

Servicebio®10×Purple DNA Loading Buffer

Cat. #：G3377

Product Information

Product Name	Cat.No.	Spec.
10×Purple DNA Loading Buffer	G3377-1ML	1 mL
	G3377-5ML	5×1 mL
	G3377-10ML	10×1 mL

Description/Introduction

10×Purple DNA Loading Buffer is a ten-fold concentrated DNA loading buffer, the premixed loading buffer contains two dyes, the first blue dye and the second red dye, which can be used as indicator dyes in agarose electrophoresis. The migration of blue dye in 1×TAE Buffer and 1% agarose gel is about 4160 bp, and in 1×TBE Buffer and 1% agarose gel is about 3030 bp. The migration of red dye in 1×TAE Buffer and 1% agarose gel is about 370 bp, and in 1×TBE Buffer and 1% agarose gel is about 220 bp. Neither dye leaves a shadow during UV imaging and also contains EDTA, which chelates divalent metal ions, thereby inhibiting metal-dependent nuclease activity.

Storage and Handling Conditions

Ship and store at room temperature; valid for 24 months.

Product Contents

Component	G3377-1ML	G3377-5ML	G3377-10ML
10×Purple DNA Loading Buffer	1 mL	5×1 mL	10×1 mL
Manual	One copy		

Instructions for Use

Every 9 μL DNA sample is mixed with 1 μL 10×Purple DNA Loading Buffer and added to the gel spot pore of DNA electrophoresis.

Notice

1. This product can not be used as Loading Buffer for protein gel electrophoresis.
2. For your safety and health, please wear a lab coat and disposable gloves.

Related products

Cat.No.	Component	Spec.
G3001	50×TAE	500 mL
G3002	10×TBE	250 mL
G3606	SerRed Nucleic Acid Gel Stain (1000×, Aqueous Solubility)	100 μL, 500 μL
G5056	Agarose （Electrophoresis-Grade, Low EEO）	5 g, 100 g
G3362	GN8K DNA Marker	500 μL, 5×500 μL
G3366	GN100bp DNA Ladder II	500 μL, 5×500 μL

Servicebio®10×Red DNA Loading Buffer

Cat. #：G3376

Product Information

Product Name	Cat.No.	Spec.
10×Red DNA Loading Buffer	G3376-1ML	1 mL

Description/Introduction

10×Red DNA Loading Buffer is a tenfold concentrated DNA sample buffer, the premixed sample buffer contains two dyes, the first red dye and the second orange dye, which can be used as indicator dyes in agarose electrophoresis. The migration of red dye in 1×TAE Buffer and 1% agarose gel is about 370 bp, and in 1×TBE Buffer and 1% agarose gel is about 220 bp. The migration of orange dye in 1×TAE or 1×TBE buffer and 1% agarose gel is below 100 bp. Neither dye leaves a shadow during UV imaging and also contains EDTA, which chelates divalent metal ions, thereby inhibiting metal-dependent nuclease activity.

Storage and Handling Conditions

Shipped and stored at room temperature; valid for up to 24 months.

Product Contents

Component	G3376-1ML
10×Red DNA Loading Buffer	1 mL
Manual	One copy

Instructions for Use

Every 9 μL DNA sample is mixed with 1 μL 10×Peach DNA Loading Buffer and added to the gel spot pore of DNA electrophoresis.

Notice

1. This product can not be used as Loading Buffer for protein gel electrophoresis.
2. For your safety and health, please wear a lab coat and disposable gloves.

Related products

Cat.No.	Component	Spec.
G3001	50×TAE	500 mL
G3002	10×TBE	250 mL
G3606	SerRed Nucleic Acid Gel Stain (1000×, Aqueous Solubility)	100 μL, 500 μL
G5056	Agarose （Electrophoresis-Grade, Low EEO）	5 g, 100 g
G3362	GN8K DNA Marker	500 μL, 5×500 μL
G3366	GN100bp DNA Ladder II	500 μL, 5×500 μL

Servicebio®10×Purple DNA Loading Buffer

Cat. #：G3377

Product Information

Product Name	Cat.No.	Spec.
10×Purple DNA Loading Buffer	G3377-1ML	1 mL

Description/Introduction

10×Purple DNA Loading Buffer is a tenfold concentrated DNA sample buffer, the premixed sample buffer contains two dyes, the first blue dye and the second red dye, which can be used as indicator dyes in agarose electrophoresis. The migration of blue dye in 1×TAE Buffer and 1% agarose gel is about 4160 bp, and in 1×TBE Buffer and 1% agarose gel is about 3030 bp. The migration of red dye in 1×TAE Buffer and 1% agarose gel is about 370 bp, and in 1×TBE Buffer and 1% agarose gel is about 220 bp. Neither dye leaves a shadow during UV imaging and also contains EDTA, which chelates divalent metal ions, thereby inhibiting metal-dependent nuclease activity.

Storage and Handling Conditions

Shipped and stored at room temperature; valid for up to 24 months.

Product Contents

Component	G3377-1ML
10×Purple DNA Loading Buffer	1 mL
Manual	One copy

Instructions for Use

Every 9 μL DNA sample is mixed with 1 μL 10×Peach DNA Loading Buffer and added to the gel spot pore of DNA electrophoresis.

Notice

1. This product can not be used as Loading Buffer for protein gel electrophoresis.
2. For your safety and health, please wear a lab coat and disposable gloves.

Related products

Cat.No.	Component	Spec.
G3001	50×TAE	500 mL
G3002	10×TBE	250 mL
G3606	SerRed Nucleic Acid Gel Stain (1000×, Aqueous Solubility)	100 μL, 500 μL
G5056	Agarose （Electrophoresis-Grade, Low EEO）	5 g, 100 g
G3362	GN8K DNA Marker	500 μL, 5×500 μL
G3366	GN100bp DNA Ladder II	500 μL, 5×500 μL

Servicebio® SerRed Nucleic Acid Dye (10000×, Water Soluble)

Cat. #: G3606

Product Information

Product Name	Cat. No.	Spec..
SerRed Nucleic Acid Dye (10000×, Water Soluble)	G3606-100UL	100 μL
	G3606-500UL	500 μL
	G3606-5ML	5×1 mL

Product Description

SerRed is a highly sensitive, non-mutagenic, ultra-safe and ultra-stable fluorescent nucleic acid gel staining reagent (working concentration), which can replace ethidium bromide (EtBr, EB) with much higher sensitivity than EB without decolorization. SerRed has the same spectral characteristics as EB, and replaces EB without changing the imaging system.

Storage and Shipping Conditions

Ship and store at room temperature; It is valid for 24 months.

Product Components

Component	G3606-100UL	G3606-500UL	G3606-5ML
SerRed nucleic acid Dye (10000×, water soluble)	100 μL	50 μL	5×1 mL
Manual	1		

Assay Protocol

1. Glue dyeing method (same usage as EB)
   a) To prepare the gel, add 5 μL of SerRed nucleic acid dye (10,000 x, water soluble) per 50 mL of agarose (G5056 recommended) gel and mix thoroughly (SerRed has excellent thermal stability and can be added directly to the high-temperature gel solution without waiting for the gel solution to cool. It can also be made by pre-mixing SerRed with an electrophoresis buffer containing agarose powder and heating it).
   b) Electrophoresis according to conventional methods.
2. Soak dyeing method
   a) Electrophoresis according to conventional methods.
   b) Dilute SerRed Nucleic Acid Dye 10,000 x stock solution approximately 3,300 times to make a 3 x staining solution (for example, add 15 μL of SerRed Nucleic Acid Dye 10,000 x stock solution to 50 mL of H2O).
   c) Carefully place the gel into a suitable container and soak the gel with a sufficient amount of 3 x staining solution. In order to shorten the soaking time, the dyeing solution can be pre-heated to

about 70℃, then put into the gel and incubate for 10 min to obtain the ideal effect (if not heated, incubate for 30 min in room temperature shaker; if it is acrylamide gel, incubate for 30-60 min and extend with the increase of acrylamide content).The amount of bubble dyeing dye is large, and the dyeing solution can be reused for about 3 times for a single use. The 3×SerRed stain solution can be prepared in large quantities and stored at room temperature until used up.

Note

1. The dye does not need to be refrigerated at low temperature. Please store it at room temperature to avoid precipitation. If precipitation is found, please heat the dyes to 45-50°C for 2 min and shake to dissolve, which dose not affect the use.
2. This product can stain single-stranded DNA and RNA, but is less sensitive to single-stranded DNA or RNA than double-stranded DNA.
3. Wear lab coats and disposable gloves during operation.

Servicebio® SerRed Nucleic Acid Dye (10000×, Water Soluble)

Cat. #: G3606

Product Information

Product Name	Cat. No.	Spec..
SerRed Nucleic Acid Dye (10000×, Water Soluble)	G3606-100UL	100 μL
	G3606-500UL	500 μL
	G3606-5ML	5×1 mL

Product Description

SerRed is a highly sensitive, non-mutagenic, ultra-safe and ultra-stable fluorescent nucleic acid gel staining reagent (working concentration), which can replace ethidium bromide (EtBr, EB) with much higher sensitivity than EB without decolorization. SerRed has the same spectral characteristics as EB, and replaces EB without changing the imaging system.

Storage and Shipping Conditions

Ship and store at room temperature; It is valid for 24 months.

Product Components

Component	G3606-100UL	G3606-500UL	G3606-5ML
SerRed nucleic acid Dye (10000×, water soluble)	100 μL	50 μL	5×1 mL
Manual	1		

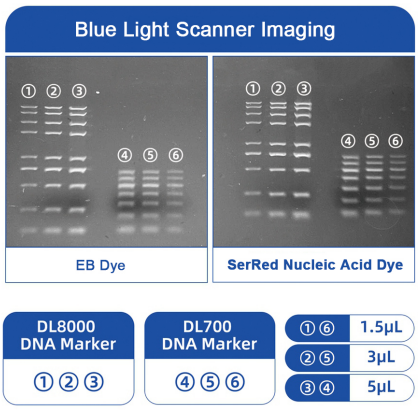
Assay Protocol

1. Glue dyeing method (same usage as EB)
   a) To prepare the gel, add 5 μL of SerRed nucleic acid dye (10,000 x, water soluble) per 50 mL of agarose (G5056 recommended) gel and mix thoroughly (SerRed has excellent thermal stability and can be added directly to the high-temperature gel solution without waiting for the gel solution to cool. It can also be made by pre-mixing SerRed with an electrophoresis buffer containing agarose powder and heating it).
   b) Electrophoresis according to conventional methods.
2. Soak dyeing method
   a) Electrophoresis according to conventional methods.
   b) Dilute SerRed Nucleic Acid Dye 10,000 x stock solution approximately 3,300 times to make a 3 x staining solution (for example, add 15 μL of SerRed Nucleic Acid Dye 10,000 x stock solution to 50 mL of H2O).
   c) Carefully place the gel into a suitable container and soak the gel with a sufficient amount of 3 x staining solution. In order to shorten the soaking time, the dyeing solution can be pre-heated to

about 70℃, then put into the gel and incubate for 10 min to obtain the ideal effect (if not heated, incubate for 30 min in room temperature shaker; if it is acrylamide gel, incubate for 30-60 min and extend with the increase of acrylamide content).The amount of bubble dyeing dye is large, and the dyeing solution can be reused for about 3 times for a single use. The 3×SerRed stain solution can be prepared in large quantities and stored at room temperature until used up.

Note

1. The dye does not need to be refrigerated at low temperature. Please store it at room temperature to avoid precipitation. If precipitation is found, please heat the dyes to 45-50°C for 2 min and shake to dissolve, which dose not affect the use.
2. This product can stain single-stranded DNA and RNA, but is less sensitive to single-stranded DNA or RNA than double-stranded DNA.
3. Wear lab coats and disposable gloves during operation.



SerRed Nucleic Acid Dye (10000×, Water Soluble)

Cat.No. : G3606-5ML

Brand : Servicebio

Product Introduction

ProductInformation

ProductName	Cat. No.	Spec..
SerRed Nucleic Acid Dye (10000×, Water Soluble)	G3606-100UL	100 μL
	G3606-500UL	500 μL
	G3606-5ML	5×1 mL

Product Description

SerRed is a highly sensitive, non-mutagenic, ultra-safe and ultra-stable fluorescent nucleic acid gel staining reagent (working concentration), which can replace ethidium bromide (EtBr, EB) with much higher sensitivity than EB without decolorization.

SerRed has the same spectral characteristics as EB, and replaces EB without changing the imaging system.

Storage andShipping Conditions

Ship andstore at room temperature; It is valid for 24 months.

Product Components

Component	G3606-100UL	G3606-500UL	G3606-5ML
SerRed nucleic acid Dye (10000×, water soluble)	100 μL	50 μL	5×1 mL
Manual	1		

Assay Protocol

1. Glue dyeing method (same usage as EB)

   a)

   To prepare the gel, add 5 μL of SerRed nucleic acid dye (10,000 x, water soluble) per 50 mL of agarose (G5056 recommended) gel and mix thoroughly (SerRed has excellent thermal stability and can be added directly to the high-temperature gel solution without waiting for the gel solution to cool. It can also be made by pre-mixing SerRed with an electrophoresis buffer containing agarose powder and heating it).

   b) Electrophoresisaccording to conventional methods.

2. Soak dyeing method

   a) Electrophoresisaccording to conventional methods.

b) Dilute SerRed Nucleic Acid Dye 10,000 x stock solution approximately 3,300 times to make a 3 x staining solution (for example,add 15 μLof SerRed Nucleic Acid Dye 10,000 x stock solutionto 50 mLofH2O).

c) Carefully place the gel into a suitable container and soak the gel with a sufficient amount of 3 x staining solution.

In order to shorten the soaking time, the dyeing solution can be pre-heated to about 70℃, then put into the gel

and incubate for 10 min to obtain the ideal effect (if not heated, incubate for 30 min in room temperature shaker; if it is acrylamide gel, incubate for

30-60 min and extend with the increase of acrylamide content).The amount of bubble dyeing dye is large, and the dyeing solution can be reused for about 3 times for a single use. The 3×SerRed stain solution can be prepared in large quantities and stored at room temperature until used up.

Note

1. The dye does not need to be refrigerated at low temperature. Please store it at room temperature to avoid precipitation.

   If precipitation is found, please heat the dyes to 45-50°C for 2 min and shake to dissolve, which dose notaffect the use.
2. This product can stain single-stranded DNA and RNA, but is less sensitive to single-stranded DNA or RNA than double-stranded DNA.
3. Wear lab coats and disposable gloves during operation.

Servicebio® Agarose (Electrophoresis-Grade, Low EEO)

Cat. #：GC205013-100g

Product Information

Product Name	Cat. No.	Spec.
Agarose (Electrophoresis-Grade, Low EEO)	G5056-5G	5 g
	GC205013-100g	100 g

Product Description/Introduction

Agarose （Electrophoresis-Grade, Low EEO） is a polysaccharide used for size-based separation of nucleic acids in agarose gel electrophoresis applications. It is ideal for resolving DNA and RNA fragments from 50 bp to >30 kb.

Features:

•Ideal for analysis and recovery of DNA and RNA for routine applications

•Strong gel structure allows for better handling and less breakage

Storage and Shipping Conditions

Ship and store at room temperature, valid for 5 years.

Features of Product

CAS	9012-36-6
Format	White to off-white powder
Gel strength	≥1200 g/cm2 (1% Gel)
Gelling temperature	36±1.5℃ （1.5% Gel）
Melting temperature	88±1.5℃ （1.5% Gel）
Electroosmotic value	≤0.13
Sulfate	≤0.15%
Moisture	≤10%
DNase	None Detected
RNase	None Detected
Protease	None Detected

Usage

Refer to the table below for the recommended concentration of Agarose （Electrophoresis-Grade, Low EEO） needed to resolve DNA fragments of the approximate listed range:

The concentration of agarose gel	Linear DNA separation range (bp)
0.5%	1000-30000
0.7%	800-12000
1.0%	500-10000
1.2%	400-7000
1.5%	200-3000
2.0%	50-2000

Assay Protocol / Procedures

1. Determine the amount of agarose solution needed to cast your gel. Note: Remember to take the thickness of the gel into account, as it affects both well volume and power requirements.
2. Add room temperature buffer (TAE or TBE) into a flask that can hold 2–4 times the volume of your agarose solution.
3. Sprinkle slowly the required amount of agarose powder into the flask as the solution mixes, to prevent the formation of agarose clumps.
4. Cover the mouth of the flask with plastic wrap, and pierce the wrap with a small hole for ventilation.
5. Place the flask in the microwave oven and heat the solution until bubbles appear.
6. Remove the flask carefully, and swirl gently to resuspend any agarose particles. **Exercise caution – microwaved solution may become superheated and foam over when agitated.**
7. Reheat the solution until the solution comes to a boil, and all the agarose particles are dissolved.
8. Remove the flask carefully and swirl gently to mix the solution.
9. Mix gently and cool to 50–60℃ (at room temperature for at least 20 minutes) before pouring the solution into the casting tray.

Note

1. If high-concentration agarose gel (≥2.5%) needs to be prepared, let it stand at room temperature for 10 minutes after step 4. And then the agarose solution will mix better.
2. It is recommended to prepare the agarose gel for immediate use or place it at room temperature for no more than 4 hours. The gel can be wrapped in plastic wrap and placed at 4°C for long-term storage (if the nucleic acid dye is added, it needs to be protected from light). Generally, it can be stored for 2-5 days. The brightness or clarity of electrophoresis bands may slightly decline.

Servicebio® GN3K DNA Marker

Cat. #：G3360

Product Information

Product Name	Cat.No.	Spec.
GN3K DNA Marker	G3360-1	500 μL
	G3360-5	5×500 μL

Description/Introduction

The product GN3K DNA Marker consists of 8 linear double-stranded DNA bands (including 100 bp, 250 bp, 500 bp, 750 bp, 1000 bp, 1500 bp, 2000 bp, 3000 bp). The 1×DNA loading buffer mixed with blue indicator dye is suitable for the analysis of DNA bands in agarose gel electrophoresis. The product is ready-to-use, according to the experimental needs, directly take 5~10 μL for electrophoresis, and it is easy to use, electrophoresis band is clear, easy to accurately judge the content of the target product DNA. The DNA concentration of 500 bp band in GN3K DNA Marker is 100 ng/5 μL, which shows bright band, and the DNA concentration of other bands is 50 ng/5 μL.

Storage and Handling Conditions

Ship with wet ice and store at -20°C; valid for 24 months.

Product Contents

Component	G3360-1	G3360-5
GN3K DNA Marker	500 μL	5×500 μL
10 x DNA Loading Buffer (Peach)	1 mL	1 mL
Manual	One copy	

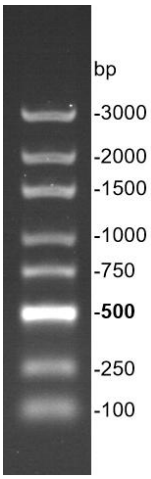
Assay Protocol / Procedures

1. After fully thawing and mixing, add 5 μL of the product to the sample hole of the agarose gel (the sample volume is proportional to the hole width: 1 μL: 1 mm, if the sample hole is wide, the sample volume can be increased appropriately) for electrophoresis.
2. The recommended electrophoretic condition is 1% agarose (recommended G5056) gel with a voltage of 4~10 V/cm.
3. Dye with EB or other nucleic acid dyes (recommended G3606) and observe the electrophoretic bands under ultraviolet light or gel imager.

Note

1. Thaw thoroughly before use and store at 4°C to avoid repeated freezing and thawing.
2. Recommended electrophoresis buffer: TAE/TBE (recommended G3001, G3002). Change the electrophoresis buffer in time and use the newly prepared agarose gel so as not to affect the electrophoresis results.
3. For your safety and health, please wear a lab coat and disposable gloves.

GN3K DNA Marker



1% TAE agarose gel stained by EB (sample size: 5 μL)

Servicebio® GN3K DNA Marker

Cat. #：G3360

Product Information

Product Name	Cat.No.	Spec.
GN3K DNA Marker	G3360-1	500 μL
	G3360-5	5×500 μL

Description/Introduction

The product GN3K DNA Marker consists of 8 linear double-stranded DNA bands (including 100 bp, 250 bp, 500 bp, 750 bp, 1000 bp, 1500 bp, 2000 bp, 3000 bp). The 1×DNA loading buffer mixed with blue indicator dye is suitable for the analysis of DNA bands in agarose gel electrophoresis. The product is ready-to-use, according to the experimental needs, directly take 5~10 μL for electrophoresis, and it is easy to use, electrophoresis band is clear, easy to accurately judge the content of the target product DNA. The DNA concentration of 500 bp band in GN3K DNA Marker is 100 ng/5 μL, which shows bright band, and the DNA concentration of other bands is 50 ng/5 μL.

Storage and Handling Conditions

Ship with wet ice and store at -20°C; valid for 24 months.

Product Contents

Component	G3360-1	G3360-5
GN3K DNA Marker	500 μL	5×500 μL
10 x DNA Loading Buffer (Peach)	1 mL	1 mL
Manual	One copy	

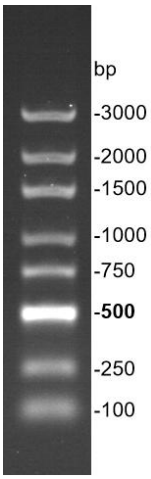
Assay Protocol / Procedures

1. After fully thawing and mixing, add 5 μL of the product to the sample hole of the agarose gel (the sample volume is proportional to the hole width: 1 μL: 1 mm, if the sample hole is wide, the sample volume can be increased appropriately) for electrophoresis.
2. The recommended electrophoretic condition is 1% agarose (recommended G5056) gel with a voltage of 4~10 V/cm.
3. Dye with EB or other nucleic acid dyes (recommended G3606) and observe the electrophoretic bands under ultraviolet light or gel imager.

Note

1. Thaw thoroughly before use and store at 4°C to avoid repeated freezing and thawing.
2. Recommended electrophoresis buffer: TAE/TBE (recommended G3001, G3002). Change the electrophoresis buffer in time and use the newly prepared agarose gel so as not to affect the electrophoresis results.
3. For your safety and health, please wear a lab coat and disposable gloves.

GN3K DNA Marker



1% TAE agarose gel stained by EB (sample size: 5 μL)

GN5K DNA Marker

Cat.No. : G3361-01

Brand : Servicebio

Spec.: 500 μL | 5×500 μL

Product Introduction

Product Information

Product Name	Cat.No.	Spec.
GN5K DNA Marker	G3361-01	500 μL
	G3361-05	5×500 μL

Product Description/Introduction

The GN5K DNA Marker consists of linear double-stranded DNA (100 bp, 250 bp, 500 bp, 750 bp, 1000 bp, 1500 bp, 2000 bp, 3000 bp, 5000 bp) bands mixed with 1×DNA Loading Buffer containing a blue indicator dye, and is suitable for analyzing DNA bands in agarose gel electrophoresis. This product is ready-to-use, according to the experimental needs, directly take 5-10 μL for electrophoresis, easy to use, clear electrophoresis bands, easy to accurately determine the content of the target product DNA. The 500 bp band in the GN5K DNA Marker has a DNA concentration of 100 ng/5 μL and shows a bright band; the remaining bands have a DNA concentration of 50 ng/5 μL.

Storage and Shipping Conditions

Ship with wet ice; Store at -20℃;valid for 24 months.

Product Contents

Component	G3361-01	G3361-05
GN5K DNA Marker	500 μL	5×500 μL
10 x DNA Loading Buffer (Peach)	1 mL	1 mL
Manual	One copy	

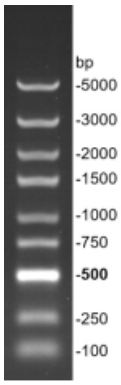
Assay Protocol / Procedures

1. After thorough thawing and mixing, take 5 μL of the product and add it to the sampling wells of the agarose gel (the volume of the sample volume is proportional to the width of the wells: 1 μL: 1 mm, if the sampling wells are wider, the volume of the sample volume can be increased appropriately), and then carry out electrophoresis.
2. Recommended electrophoretic conditions are 1% agarose (G5056 recommended) gel at 4-10 V/cm.
3. Stain by EB or other nucleic acid dyes (G3606 recommended) and observe the electrophoretic bands under a UV lamp or gel imager.

Note:

1. When using, thaw and mix thoroughly, thaw and store at 4℃, avoid freeze - thaw cycles.
2. Recommended electrophoresis buffer: TAE/TBE (recommended G3001, G3002); change the electrophoresis buffer and use freshly prepared agarose gel in time to avoid affecting the electrophoresis results.
3. For your safty and health,please wear safety glasses, gloves, or protective clothing.

GN5K DNA Marker



1 % TAE agarose gel stained with EB (loading with 5 μL DNA marker)

Servicebio® GN8K DNA Marker

Cat. #：G3362

Product Information

Product Name	Cat.No.	Spec.
GN8K DNA Marker	G3362-01	500 μL
	G3362-05	5×500 μL

Product Information

GN8K DNA Marker consists of 10 linear double-stranded DNA (100 bp, 250 bp, 500 bp, 750 bp, 1000 bp, 1500 bp, 2000 bp, 3000 bp, 5000 bp, 8000 bp) bands mixed with 1×DNA Loading Buffer containing blue indicator dye, and is suitable for the analysis of DNA bands in agarose gel electrophoresis. This product is ready-to-use, according to the experimental needs, directly take 5-10 μL for electrophoresis, easy to use, clear electrophoresis bands, easy to accurately determine the content of the target product DNA. The 500 bp band in the GN8K DNA Marker has a DNA concentration of 100 ng/5 μL and shows a bright band; the remaining bands have a DNA concentration of 50 ng/5 μL.

Storage and Shipping Conditions

Ship with wet ice; Store at -20℃;valid for 24 months.

Product Contents

Component	G3362-01	G3362-05
GN8K DNA Marker	500 μL	5×500 μL
10 x DNA Loading Buffer (Peach)	1 mL	1 mL
Manual	One copy	

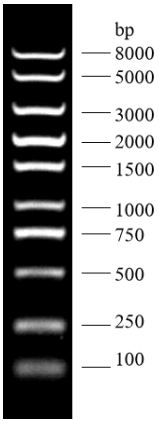
Assay Protocol / Procedures

1. After thorough thawing and mixing, take 5 μL of the product and add it to the sampling wells of the agarose gel (the volume of the sample volume is proportional to the width of the wells: 1 μL: 1 mm, if the sampling wells are wider, the volume of the sample volume can be increased appropriately), and then carry out electrophoresis.
2. Recommended electrophoretic conditions are 1% agarose (G5056 recommended) gel at 4-10 V/cm.
3. Stain by EB or other nucleic acid dyes (G3606 recommended) and observe the electrophoretic bands under a UV lamp or gel imager.

Note:

1. When using, thaw and mix thoroughly, thaw and store at 4℃, avoid freeze - thaw cycles.
2. Recommended electrophoresis buffer: TAE/TBE (recommended G3001, G3002); change the electrophoresis buffer and use freshly prepared agarose gel in time to avoid affecting the electrophoresis results.
3. For your safty and health,please wear safety glasses, gloves, or protective clothing.

GN8K DNA Marker



1.5 % TAE agarose gel stained with EB (loading with 5 μL DNA marker)

GN10K DNA Marker

Cat.No. : G3363-01

Brand : Servicebio

Spec.: 500 μL | 5×500 μL

Product Introduction

Product Information

Product Name	Cat. No.	Spec.
GN10K DNA Marker	G3363-01	500 μL
	G3363-05	5×500 μL

Product Description/Introduction

This product, GN10K DNA Marker, consists of 10 linear double-stranded DNA (containing 300 bp, 500 bp, 800 bp, 1000 bp, 1500 bp, 2000 bp, 3000 bp, 5000 bp, 7500 bp, and 10,000 bp) bands, which have been mixed with 1×DNA Loading Buffer containing a blue indicator dye and is suitable for analyzing DNA bands in agarose gel electrophoresis. This product is ready-to-use, according to the experimental needs, directly take 5-10 μL for electrophoresis, easy to use, clear electrophoresis bands, easy to accurately determine the content of the target product DNA. The 800 bp, 2000 bp band in the GN10K DNA Marker has a DNA concentration of 100 ng/5 μL and shows a bright band; the remaining bands have a DNA concentration of 50 ng/5 μL.

Storage and Shipping Conditions

Ship with wet ice; Store at -20℃, valid for 24 months.

Product Contents

Component	G3363-01	G3363-05
GN10K DNA Marker	500 μL	5×500 μL
10 x DNA Loading Buffer (Peach)	1 mL	1 mL
Manual	One copy	

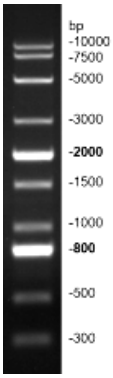
Assay Protocol / Procedures

1. After thorough thawing and mixing, take 5 μL of the product and add it to the sampling wells of the agarose gel (the volume of the sample volume is proportional to the width of the wells: 1 μL: 1 mm, if the sampling wells are wider, the volume of the sample volume can be increased appropriately), and then carry out electrophoresis.
2. Recommended electrophoretic conditions are 1% agarose (G5056 recommended) gel at 4-10 V/cm.
3. Stain by EB or other nucleic acid dyes (G3606 recommended) and observe the electrophoretic bands under a UV lamp or gel imager.

Note

1. When using, thaw and mix thoroughly, thaw and store at 4℃, avoid freeze - thaw cycles.
2. Recommended electrophoresis buffer: TAE/TBE (recommended G3001, G3002); change the electrophoresis buffer and use freshly prepared agarose gel in time to avoid affecting the electrophoresis results.
3. For your safty and health,please wear safety glasses, gloves, or protective clothing.

GN10K DNA Marker



1 % TAE agarose gel stained with EB (loading with 5μL DNA marker)

Servicebio® GN10K DNA Marker

Cat. #：G3363-01

Product Information

Product Name	Cat. No.	Spec.
GN10K DNA Marker	G3363-01	500 μL
	G3363-05	5×500 μL

Product Description/Introduction

This product, GN10K DNA Marker, consists of 10 linear double-stranded DNA (containing 300 bp, 500 bp, 800 bp, 1000 bp, 1500 bp, 2000 bp, 3000 bp, 5000 bp, 7500 bp, and 10,000 bp) bands, which have been mixed with 1×DNA Loading Buffer containing a blue indicator dye and is suitable for analyzing DNA bands in agarose gel electrophoresis. This product is ready-to-use, according to the experimental needs, directly take 5-10 μL for electrophoresis, easy to use, clear electrophoresis bands, easy to accurately determine the content of the target product DNA. The 800 bp, 2000 bp band in the GN10K DNA Marker has a DNA concentration of 100 ng/5 μL and shows a bright band; the remaining bands have a DNA concentration of 50 ng/5 μL.

Storage and Shipping Conditions

Ship with wet ice; Store at -20℃, valid for 24 months.

Product Contents

Component	G3363-01	G3363-05
GN10K DNA Marker	500 μL	5×500 μL
10 x DNA Loading Buffer (Peach)	1 mL	1 mL
Manual	One copy	

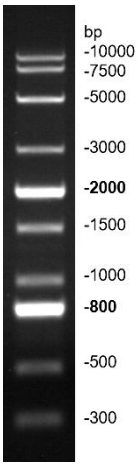
Assay Protocol / Procedures

1. After thorough thawing and mixing, take 5 μL of the product and add it to the sampling wells of the agarose gel (the volume of the sample volume is proportional to the width of the wells: 1 μL: 1 mm, if the sampling wells are wider, the volume of the sample volume can be increased appropriately), and then carry out electrophoresis.
2. Recommended electrophoretic conditions are 1% agarose (G5056 recommended) gel at 4-10 V/cm.
3. Stain by EB or other nucleic acid dyes (G3606 recommended) and observe the electrophoretic bands under a UV lamp or gel imager.

Note

1. When using, thaw and mix thoroughly, thaw and store at 4℃, avoid freeze - thaw cycles.
2. Recommended electrophoresis buffer: TAE/TBE (recommended G3001, G3002); change the electrophoresis buffer and use freshly prepared agarose gel in time to avoid affecting the electrophoresis results.
3. For your safty and health,please wear safety glasses, gloves, or protective clothing.

GN10K DNA Marker



1 % TAE agarose gel stained with EB (loading with 5 μL DNA marker)

Servicebio® GN100bp DNA Ladder I

Cat. #：G3365

Product Information

Product Name	Cat. No.	Spec.
GN100bp DNA Ladder I	G3365-01	500 μL
	G3365-05	5×500 μL

Product Description/Introduction

The GN100bp DNA Ladder I consists of six linear double-stranded DNA (containing 50 bp, 100 bp, 200 bp, 300 bp, 400 bp, and 500 bp) bands, which have been mixed with 1× DNA Loading Buffer containing a blue indicator dye, and is suitable for the analysis of DNA bands in agarose gel electrophoresis. This product is ready-to-use, according to the experimental needs, take 5-10 μL for electrophoresis, easy to use, clear electrophoresis bands, easy to accurately determine the content of the target product DNA. The 500 bp band in GN100bp DNA Ladder I has a DNA concentration of 100 ng/5 μL and shows a bright band; the remaining bands have a DNA concentration of 50 ng/5 μL.

Storage and Shipping Conditions

Ship with wet ice; Store at -20℃, valid for 24 months.

Product Contents

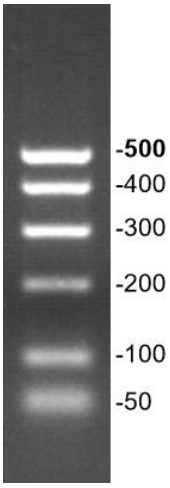
Component	G3365-01	G3365-05
GN100bp DNA Ladder I	500 μL	5×500 μL
10 x DNA Loading Buffer (Peach)	1 mL	1 mL
Manual	One copy	

Assay Protocol / Procedures

1. After thorough thawing and mixing, take 5 μL of the product and add it to the sampling wells of the agarose gel (the volume of the sample volume is proportional to the width of the wells: 1 μL: 1 mm, if the sampling wells are wider, the volume of the sample volume can be increased appropriately), and then carry out electrophoresis.
2. Recommended electrophoretic conditions are 2% agarose (G5056 recommended) gel at 4-10 V/cm.
3. Stain by EB or other nucleic acid dyes (G3606 recommended) and observe the electrophoretic bands under a UV lamp or gel imager.

Note

1. When using, thaw and mix thoroughly, thaw and store at 4℃, avoid freeze - thaw cycles.
2. Recommended electrophoresis buffer: TAE/TBE (recommended G3001, G3002); change the electrophoresis buffer and use freshly prepared agarose gel in time to avoid affecting the electrophoresis results.
3. For your safty and health,please wear safety glasses, gloves, or protective clothing.



2 % TAE agarose gel stained with EB (loading with 5 μL DNA marker)

Servicebio® GN100bp DNA Ladder II

Cat. #：G3366-01

Product Information

Product Name	Cat. No.	Spec.
GN100bp DNA Ladder II	G3366-01	500 μL
	G3366-05	5×500 μL

Product Description/Introduction

The GN100bp DNA Ladder II, consists of 7 linear double-stranded DNA (containing 100 bp, 200 bp, 300 bp, 400 bp, 500 bp, 600 bp, and 700 bp) bands, which have been mixed with 1×DNA loading buffer containing blue indicator dye, and is suitable for the analysis of DNA bands in agarose gel electrophoresis. This product is ready-to-use, according to the experimental needs, take 5-10 μL electrophoresis, easy to use, clear electrophoresis bands, easy to accurately determine the content of the target product DNA. The 500 bp band in GN100bp DNA Ladder II has a DNA concentration of 100 ng/5 μL and shows a bright band; the remaining bands have a DNA concentration of 50 ng/5 μL.

Storage and Shipping Conditions

Ship with wet ice; Store at -20℃, valid for 24 months.

Product Contents

Component	G3366-01	G3366-05
GN100bp DNA Ladder II	500 μL	5×500 μL
10 x DNA Loading Buffer (Peach)	1 mL	1 mL
Manual	One copy	

Assay Protocol / Procedures

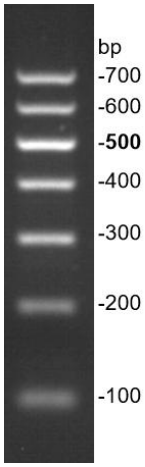
1. After thorough thawing and mixing, take 5 μL of the product and add it to the sampling wells of the agarose gel (the volume of the sample volume is proportional to the width of the wells: 1 μL: 1 mm, if the sampling wells are wider, the volume of the sample volume can be increased appropriately), and then carry out electrophoresis.
2. Recommended electrophoretic conditions are 2% agarose (G5056 recommended) gel at 4-10 V/cm.
3. Stain by EB or other nucleic acid dyes (G3606 recommended) and observe the electrophoretic bands under a UV lamp or gel imager.

Mix gently, and then load 1 μl per 1 mm gel lane.

Note

1. When using, thaw and mix thoroughly, thaw and store at 4℃, avoid freeze - thaw cycles.
2. Recommended electrophoresis buffer: TAE/TBE (recommended G3001, G3002); change the electrophoresis buffer and use freshly prepared agarose gel in time to avoid affecting the electrophoresis results.
3. For your safty and health,please wear safety glasses, gloves, or protective clothing.

GN100bp DNA Ladder II



2 % TAE agarose gel stained with EB (loading with 5 μL DNA marker)

Servicebio® GN100bp DNA Ladder III

Cat. #：G3367

Product Information

Product Name	Cat. No.	Spec.
GN100bp DNA Ladder III	G3367-01	500 μL
	G3367-05	5×500 μL

Product Description/Introduction

The GN100bp DNA Ladder III consists of 10 linear double-stranded DNA (100 bp, 200 bp, 300 bp, 400 bp, 500 bp, 600 bp, 700 bp, 800 bp, 900 bp, 1000 bp) bands mixed with 1 x DNA Loading Buffer containing a blue indicator dye and is suitable for the analysis of DNA bands in agarose gel electrophoresis. This product is ready-to-use, according to the experimental needs, take 5-10 μL electrophoresis, easy to use, clear electrophoresis bands, easy to accurately determine the content of the target product DNA. The 500 bp band in GN100bp DNA Ladder III has a DNA concentration of 100 ng/5 μL and shows a bright band; the remaining bands have a DNA concentration of 50 ng/5 μL.

Storage and Shipping Conditions

Ship with wet ice; store at -20℃, valid for 24 months.

Product Contents

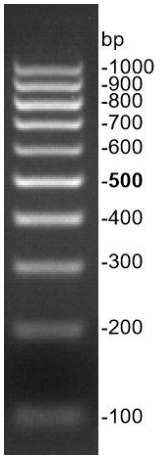
Component	G3367-01	G3367-05
GN100bp DNA Ladder III	500 μL	5×500 μL
10 x DNA Loading Buffer (Peach)	1 mL	1 mL
Manual	One copy	

Assay Protocol / Procedures

1. After thorough thawing and mixing, take 5 μL of the product and add it to the sampling wells of the agarose gel (the volume of the sample volume is proportional to the width of the wells: 1 μL: 1 mm, if the sampling wells are wider, the volume of the sample volume can be increased appropriately), and then carry out electrophoresis.
2. Recommended electrophoretic conditions are 2% agarose (G5056 recommended) gel at 4-10 V/cm.
3. Stain by EB or other nucleic acid dyes (G3606 recommended) and observe the electrophoretic bands under a UV lamp or gel imager.

Note

1. When using, thaw and mix thoroughly, thaw and store at 4℃, avoid freeze - thaw cycles.
2. Recommended electrophoresis buffer: TAE/TBE (recommended G3001, G3002); change the electrophoresis buffer and use freshly prepared agarose gel in time to avoid affecting the electrophoresis results.
3. For your safty and health, please wear safety glasses, gloves, or protective clothing.



2 % TAE agarose gel stained with EB (loading with 5 μL DNA marker)

Servicebio® GN100bp DNA Ladder III plus

Cat. #：G3368

Product Information

Product Name	Cat. No.	Spec.
GN100bp DNA Ladder III plus	G3368-01	500 μL
	G3368-05	5×500 μL

Product Description/Introduction

The GN100bp DNA Ladder III plus consists of 14 linear double-stranded DNA (100 bp, 200 bp, 300 bp, 400 bp, 500 bp, 600 bp, 700 bp, 800 bp, 900 bp, 1000 bp, 1500 bp, 2000 bp, 3000 bp, 5000 bp) bands mixed with 1×DNA Loading Buffer containing a blue indicator dye and is suitable for analysis of DNA bands in agarose gel electrophoresis. This product is ready-to-use, according to the experimental needs, take 5-10 μL electrophoresis, easy to use, clear electrophoresis bands, easy to accurately determine the content of the target product DNA. The 500 bp band in GN100bp DNA Ladder III plus has a DNA concentration of 100 ng/5 μL and shows a bright band; the remaining bands have a DNA concentration of 50 ng/5 μL.

Storage and Shipping Conditions

Ship with wet ice; store at -20℃, valid for 24 months.

Product Contents

Component	G3368-01	G3368-05
GN100bp DNA Ladder III plus	500 μL	5×500 μL
10 x DNA Loading Buffer (Peach)	1 mL	1 mL
Manual	One copy	

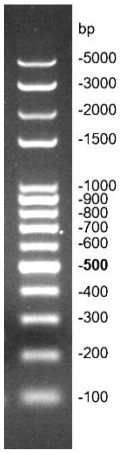
Assay Protocol / Procedures

1. After thorough thawing and mixing, take 5 μL of the product and add it to the sampling wells of the agarose gel (the volume of the sample volume is proportional to the width of the wells: 1 μL: 1 mm, if the sampling wells are wider, the volume of the sample volume can be increased appropriately), and then carry out electrophoresis.
2. Recommended electrophoretic conditions are 2% agarose (G5056 recommended) gel at 4-10 V/cm.
3. Stain by EB or other nucleic acid dyes (G3606 recommended) and observe the electrophoretic bands under a UV lamp or gel imager.

Note

1. When using, thaw and mix thoroughly, thaw and store at 4℃, avoid freeze - thaw cycles.
2. Recommended electrophoresis buffer: TAE/TBE (recommended G3001, G3002); change the electrophoresis buffer and use freshly prepared agarose gel in time to avoid affecting the electrophoresis results.
3. For your safty and health, please wear safety glasses, gloves, or protective clothing.

GN100bp DNA Ladder III plus



2 % TAE agarose gel stained with EB (loading with 5 μL DNA marker)

Servicebio® GN1000bp DNA Ladder

Cat. #：G3369

Product Information

Product Name	Cat. No.	Spec.
GN1000bp DNA Ladder	G3369-01	500 μL
	G3369-05	5×500 μL

Product Description/Introduction

The GN1000bp DNA Ladder is designed for sizing and approximate quantification of wide range double-strand DNA on agarose gels. The ladder is composed of twelve purified individual DNA fragments (in base pairs): 10000, 8000, 6000, 5000, 4000, 3000, 2000, 1500, 1000, 800, 500 and 300. It contains two reference bands (2000 and 800 bp) for easy orientation, with concentration of 100ng/5μL. The other bands has the approximate concentration of 50ng/5μL.

The DNA marker is ready to use-it is premixed with 6×DNA loading buffer for direct loading on gel.

Storage and Shipping Conditions

Ship with wet ice; store at 4℃, valid for 12 months.

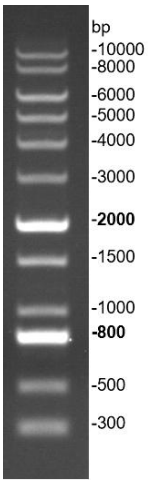
Assay Protocol / Procedures

Mix gently, and then load 1 μL per 1 mm gel lane.

Note

1. Do not heat before loading. Avoid freeze - thaw cycles.
2. For your safty and health, please wear safety glasses, gloves, or protective clothing.

GN1000bp DNA Ladder



0.8 % TAE agarose gel stained with EB (loading with 5 μL DNA marker)

Servicebio® 10×MOPS Buffer

Cat. #：G3373-100ML

Product Information

Product Name	Cat. No.	Spec.
10×MOPS Buffer	G3373-100ML	100 mL

Product Description/Introduction

10×MOPS Buffer is mainly composed of MOPS, sodium acetate, EDTA, formulated with nuclease-free water and filtered by microporous membrane, suitable for RNA formaldehyde denaturation electrophoresis. This product is tested to have no RNase activity.

This product contains 0.4 M MOPS, 0.1 M sodium acetate, 10 mM EDTA, pH 7.0 ± 0.1.

Storage and Shipping Conditions

Ship and store at room temperature; Avoid direct sunlight, valid for 24 months.

Assay Protocol / Procedures

This product is a ten-fold concentrate and needs to be used after 10-fold dilution, i.e., every 10 mL of 10×MOPS Buffer is mixed with 90 mL of nuclease-free water (recommended G4700 or G3004).

When used to prepare agarose gel for RNA formaldehyde denaturation electrophoresis, it can be operated as follows: Take 1% agarose gel preparation as an example, weigh 0.5 g of agarose and add it to 36 mL of RNase-Free Water (recommended G4700 or G3004), heat and dissolve it, and then add 5 mL of 10×MOPS Buffer (recommended G3373). When the solution is cooled until it is not hot, add 9 mL of 37% formaldehyde solution, add nucleic acid dye EB as needed, mix well, and pour the gel.

Note

1. Handle with care and use sterile, enzyme-free pipette tips to aspirate the solution to avoid RNase contamination.
2. The product is easy to turn yellow when exposed to light, so it is recommended to store in a cool and dark place. When the solution is light yellow, it does not affect to use. If the color is too dark, it is recommended to stop using.
3. For your safety and health, please wear protective clothing and gloves.

Servicebio® RNA Marker 6000

Cat. #：G3372-25UL

Product Information

Product Name	Cat. No.	Spec.
RNA Marker 6000	G3372-25UL	25 μL

Product Description/Introduction

RNA marker 6000 is a mixture of seven high-purified single-stranded RNA transcripts (in bases): 6000, 5000, 4000, 3000, 2000, 1000 and 500 bases, obtaining by in vitro transcription. The RNA concentration of the product is about 700 ng/μL suitable for routine gel electrophoresis of RNA.

Storage and Shipping Conditions

Ship with dry ice; store at -80℃ (short-term stored at -20℃), valid for 12 months.

Product Content

Component Number	Component	G3372-25UL
G3372-1	RNA Marker 6000	25 μL
G3372-2	2×RNA Loading Buffer	100 μL
Manual		One copy

Assay Protocol / Procedures

1. Mix equal volumes of RNA Marker 1000 and 2×RNA Loading Buffer (about 1-2 μL) by pipetting or by gentle vortexing, heat at 70°C for 10 minutes, and immediately place on ice for 2 minutes.
2. Load on gel.

a. Native agarose gels **(Not recommended)**: 2-5% agarose with TAE Buffer;

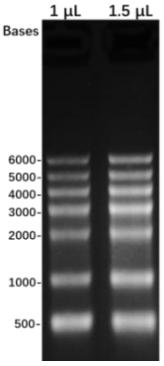
b. Denaturing formaldehyde gels **(Recommended)**: 1-3% agarose with MOPS buffer.

Taking the preparation of 1% formaldehyde gel as an example.

Dissolve 0.5 g agarose powder thoroughly in 36 mL RNase-Free Water **(G4700 or G3004 recommended)**, by heating, add 5 mL 10×MOPS Buffer **(G3373 recommended),** cool the mixture to 60°C, and then add 9 mL 37% formaldehyde solution.

Note

1. To avoid RNA degradation, use protective gloves and prepare fresh gels and electrophoresis buffers just before use. Plastic ware, tips and solutions should be treated with diethyl pyrocarbonate to prevent RNase contamination.
2. RNA marker bands are quantitative reference of single-stranded linear RNA samples. For total RNA, it only can be used as a qualitative reference.
3. Aliquot the RNA marker, if necessary, to minimize freeze-thaw cycles.



2% Agrose Electrophoresis

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