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Fisher BioReagents®

End-to-end solutions for molecular biology, protein chemistry and cell biology

Agar
Agarose
Amino Acids
Antibiotics: Bacterial Selection
Antibiotics: Cell Culture
Biological Buffers
Cell Regulation Compounds
DNA Electrophoresis Buffers
DNA Electrophoresis Products
DNA Ladders
DNA Modifying Enzymes
DNA Precipitation Products
dNTPs
Microbial Media
Northern Blot Products
Nucleic Acid Purification
Nucleic Acid Sequencing
Peptide Sequencing Products
Peptide Synthesis Products
PCR Enzymes
Protein Electrophoresis Buffers
Protein Purification
Protein Stains
Restriction Enzymes
Reverse Transcriptases
RNA Purification Kits
RNA Purification
Southern Blot
Sugar Additives
Tissue Stains
Vitamins
Water
Western Blot

Vital reagents for life science research

- Ultra-high purity
- Prequalified for the life science application
- Fisher BioReagents are among the finest in the industry

Over 1,000 products

Our extensive line includes products for:

- Nucleic Acid Electrophoresis, Purification, Hybridisation and Sequencing
- Polymerase Chain Reaction (PCR)
- Protein Purification and Electrophoresis
- Buffers and Detergents
- Cell Biology/Cell Culture
- Microbiology/Immunology

Purity grades to meet your specific needs

Reagents are prequalified and guaranteed to be suitable for the designated technique.

Stringent specifications

Address critical factors such as purity, water content, levels of contaminants and absence of DNase, RNase or protease activity.

Innovative packaging design

Packaging designed for safety, convenient handling and storage, and preservation of product integrity.

Manufacturing quality

Rigorous QA standards, supplier certification process, customer site audit, cGMP-certified manufacturing facilities, ISO 9001:2008 Quality Management System.

Bench to batch

Fisher BioReagents are packaged in sizes to meet your needs.



Fisher BioReagents®: Purity Grades for Every Application

Material Grade	Definition
Certified	Reagent chemicals for which the purity standard is established by Fisher Chemical. Purity is guaranteed to meet published maximum limits of impurities.
DNA Grade	Designates reagents suitable for use in molecular biology applications involving the manipulation of DNA. Tested for specific contaminants, such as DNase and protease.
DNA Synthesis	Designates reagents suitable for use with automated DNA synthesis instrumentation.
Electrophoresis	Material used specifically for electrophoresis applications.
Genetic Analysis Grade	Material that is specially prepared for various molecular cloning applications. Tested for specific contaminants, such as DNase and RNase.
IEF Grade	Material suitable for use with isoelectric focusing of proteins.
Islet Isolation Grade	Material suitable for isolation of pancreatic islets.
Molecular Biology Grade	Designates reagents suitable for use in molecular biology applications. Tested for specific contaminants, such as nucleases and bacteria, where appropriate.
Molecular Genetics	Reagent chemicals that have been specifically purified and assayed for molecular genetics applications.
PCR Grade	Material suitable for use in Polymerase Chain Reaction (PCR).
Peptide Synthesis	Designates reagents suitable for use with protein synthesis instrumentation.
Protein Electrophoresis Grade	Material used specifically for protein electrophoresis applications.
Sequencing	Material designed for use with automated DNA or protein sequencing equipment.
Super Pure	Material with a purity level exceeding the various monograph grades.
Tissue Culture Grade	Materials of superior quality where there are no published standards and that are suitable for use in tissue culture applications.

Packaging for safety, convenience and product quality

Fisher BioReagents come in a wide variety of innovative packaging designed for safety, environmental protection, convenient handling and storage, and preservation of product integrity. The primary container is included in the product description of most chemicals in this catalogue.

Primary containers include:

- Plastic and glass bottles, jars
- Specialised acid containers
- Square poly bottles
- Sterility proof sachets
- Poly pails
- Polypac™ containers
- Compact, laminated boxes



How to use this catalogue

Refer to the index page: “BioReagents by Product Name” to look for the page number of the product you’re interested in. Products are also Categorised by application: Molecular Biology, Protein Chemistry, Cell Biology and Core BioReagents (used for multiple applications). Refer to the appropriate chapter to look for the product you’re interested in.

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Agarose

Low-Melting, <1kb DNA/RNA

Genetic Analysis Grade

packaging	Cat. No	Mfr. No
100 g PolyBottle	1058-3355	BP1360-100
C ₁₂ H ₂₂ O ₁₁		
CAS: 9012-36-6		
MW: 306.12		

DNase

EEO (-Mr)

Gel Strength

Gelation Temperature

Melting Temperature

Moisture Content

RNase

Sulfate Content

Not detected

<0.15

>>500g/cm2

<35°C

65°C

<10%

Not detected

<0.15%

Applications: Low melting temperature agarose. Certified recovery of small nucleic acid fragments. Outstanding resolution of PCR and RT-PCR fragments from 50 to 1000 bp. In-gel PCR. In-gel ligations/transformations

Recommended Storage: RT

Fisher BioReagents®

Your source for high purity products for nucleic acid electrophoresis

All Fisher BioReagents agaroses are DNase- and RNase-free to ensure optimal results for your nucleic acid application.

Fisher BioReagents offers 3 different grades of agarose that are functionally tested and pre-qualified for specific applications:

- **Genetic Analysis Grade** – Agarose that yields biologically active DNA or RNA. Testing includes enzymatic performance measurements.
- **Molecular Biology Grade** – Agarose that is suitable for analytical separation of DNA or RNA.
- **PCR Grade** – Agarose that is suitable for the analytical separation of PCR amplicons (<1kb).

Agarose Selection Guide					
Type of Agarose	Low EEO	Low Melting (>200bp)	Low Melting (<1kb)	Wide Separation Range	PCR Grade
Cat. No	BP160	BP165	BP1360	BP1356	BP2410
Recovery of DNA or RNA	●	●	●	●	●
Southern and Northern Blots	●				
DNA/RNA separation 50bp to 1kb			●		●
DNA/RNA separation >1kb	●	●		●	
PCR fragment analysis	●	●		●	●
In-gel reactions (ligation, transformations, PCR)			●		
Colony lifts	●				
Available pack sizes	100g and 500g	25g	100g	100g and 500g	100g
Agarose grade	Molecular Biology	Molecular Biology	Genetic Analysis	Genetic Analysis	PCR Grade

Buffers for DNA Electrophoresis Applications

Two buffers commonly used for DNA electrophoresis are Tris-acetate with EDTA and Tris-borate with EDTA. Because the pH of these buffers is neutral, the phosphate backbone of DNA has a net negative charge and migrates to the anode. TAE and TBE have different properties which makes one more suitable than the other for a specific purpose.

TAE: DNase-, RNase- and Protease-free			TBE: DNase- and RNase-free		
Cat. No.	Concentration	Size	Cat. No.	Concentration	Size
BP2434-4	1X	4L	BP2430-1	1X	1L
BP2434-20	1X	20L	BP2430-4	1X	4L
BP1335-500	10X	500mL	BP2430-20	1X	20L
BP1335-1	10X	1L	BP1396-86	5X	1L*
BP1335-4	10X	4L	BP1333-1	10X	1L
BP1335-20	10X	20L	BP1333-4	10X	4L
BP1330-1	25X	1L	BP1333-20	10X	20L
BP1332-500	50X	500mL	BP1334-1	10X	1L**
BP1332-1	50X	1L			
BP1332-4	50X	4L			
BP1332-20	50X	20L			
BP1331-1	25X	1L**			

*Pre-weighed powder in poly bottle. Dissolve in water.
**Pre-weighed powder in foil pack. Dissolve in water.

Buffer Components for DNA Electrophoresis

Buffer Component		
	Size	Cat. No.
Tris Base	500g	BP152-500
	1kg	BP152-1
	5kg	BP152-5
	10kg	BP152-10
	25kg	BP152-25
Boric Acid	500g	BP168-500
	1kg	BP168-1
EDTA Disodium Salt	500g	BP120-500
	1kg	BP120-1

Buffers for RNA Electrophoresis Applications

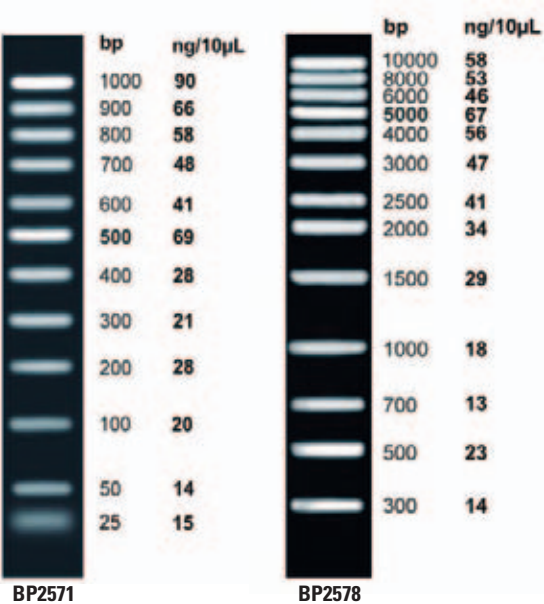
MOPS is a commonly used buffer system for RNA electrophoresis using formaldehyde or formamide-denatured RNA. It is important to use RNase-free chemicals, water and containers when preparing the buffer solution. The typical formulation of 10X MOPS running buffer is 0.4M MOPS (pH 7.0), 0.1M sodium acetate and 0.01M EDTA.

MOPS: DNase-, RNase- and Protease-free		
Cat. No.	Description	Size
BP308-100	Powder	100g
BP308-500	Powder	500g
BP2900-500	10X Buffer Solution	500mL
BP2900-1	10X Buffer Solution	1L
Water		
BP2484-50	Nuclease-Free	50mL
BP2484-100	Nuclease-Free	100mL
BP2470-1	DNA Grade	1L
BP561-1	RNA Grade	1L
Formaldehyde		
BP531-25	37% by weight	25mL
BP531-500	37% by weight	500mL



NEW!
Ethanol, Molecular Biology Grade, is an ultrapure molecular biology grade ethanol used for the purification and precipitation of biomolecules such as nucleic acids and proteins.

Cat. No.	Size
BP2818-100	100mL
BP2818-500	500mL
BP2818-4	4 L



exACTGene® and routine DNA ladders

Ready-to-use (pre-mixed with loading dye), room temperature stable DNA ladders are available for all common electrophoresis applications.

exACTGene DNA ladders are ideal for qualitative analysis, quantitative estimation and size assessment				
Cat. No.	Application	Size Range	Number of Bands	Number of Loadings
BP2570-100	PCR fragment analysis	25 to 650bp	14	100/10µL
BP2571-100	PCR fragment analysis, small DNA digests	25 to 1,000bp	12	100/10µL
BP2572-100	Quick check of PCR or enzyme digestion results	50 to 2,000bp	8	100/10µL
BP2573-100	General purpose, small DNA fragments	100 to 1,000bp	10	100/10µL
BP2574-100	Fast run times, small DNA fragments	100 to 2,000bp	11	100/10µL
BP2575-100	Clone identification	100 to 2,686bp	14	100/10µL
BP2576-100	Large size PCR or cloning	300 to 5,000bp	10	100/10µL
BP2577-100	Small and large cloning application	100 to 5,000bp	16	100/10µL
BP2578-100	General purpose, large digested DNA	300 to 10,000bp	13	100/10µL
BP2579-100	General purpose, wide separation range	100 to 10,000bp	19	100/10µL
BP2580-100	General purpose, extra large DNA fragments	300 to 24,000bp	15	100/10µL



Fisher BioReagents®
Proteomics Products
Convenience, Quality and Consistency

EZ-Run™ Protein Gel Solution

- Ready to use
- Superior resolution
- Wide separation range on same mini-gel
- No stacking gel required
- Proprietary gel chemistry
- Stable for two years at room temperature
- Compatible with all conventional staining methods
- Suitable for post-electrophoresis applications such as Western Blot transfer and MALDI analysis

EZ-Run™ Protein Gel Solutions		
Description	Quantity	Cat. No.
10% EZ-Run Protein Gel Solution	100mL	BP7710-100
	500mL	BP7710-500
12.5% EZ-Run Protein Gel Solution	100mL	BP7712-100
	500mL	BP7712-500
15% EZ-Run Protein Gel Solution	100mL	BP7715-100
	500mL	BP7715-500
20X Running Buffer for EZ-Run Protein Gel Solution	500mL	BP7700-500

Acrylamide, Bis-Acrylamide and Catalysts		
Description	Quantity	Cat. No.
Acrylamide	100g	BP170-100
	500g	BP170-500
	5kg	BP170-500
Acrylamide Solution, 40%	1L	BP1402-1
Bis-Acrylamide	25g	BP171-25
	100g	BP171-100
Bis-Acrylamide Solution, 2%	250mL	BP1404-250
Acrylamide:Bis-Acrylamide, 19:1, Powder	100g	BP1364-100
Acrylamide:Bis-Acrylamide, 29:1, Powder	100g	BP1366-100
Acrylamide:Bis-Acrylamide, 37.5:1, Powder	100g	BP1368-100
Acrylamide:Bis-Acrylamide, 19:1, 40% Solution	1L	BP1406-1
Acrylamide:Bis-Acrylamide, 29:1, 40% Solution	1L	BP1408-1
Acrylamide:Bis-Acrylamide, 37.5:1, 40% Solution	1L	BP1410-1
Ammonium Persulfate	25g	BP179-25
	100g	BP179-100
Sodium Persulfate	1kg	BP2637-1
TEMED	20g	BP150-20
	100g	BP150-100

Buffers for Protein Electrophoresis		
Description	Quantity	Cat. No.
Tris-Glycine, 10X Solution	1L	BP1306-1
	4L	BP1306-4
	1L*	BP1307-1
Tris-Glycine-SDS, 10X Solution	1L	BP1341-1
	4L	BP1341-4
Tris-Glycine-SDS, 5X Solution, Pre-Weighed Powder*	1L	BP1398-92
Tris-Glycine-SDS, 10X Solution, Pre-Weighed Powder*	1L	BP1342-1
PBS, 10X Solution	500mL	BP399-500
PBS, 10X Solution	1L	BP399-1
PBS, 10X Solution	4L	BP399-4
PBS, 10X Solution	20L	BP399-20
PBS Tablets, 1X Solution	100 tabs**	BP2944-100
PBS with Tween 20, 1X Solution, Pre-Weighed Powder*	10 foil pouches	BP2938-10
Tris-Buffered Saline, 10X (pH 7.4)	100mL	BP2471-100
	500mL	BP2471-500
	1L	BP2471-1
Tris Base	500g	BP152-500
	1kg	BP152-1
	5kg	BP152-5
	10kg	BP152-10
	25kg	BP152-25
Glycine	500g	BP381-500
	1kg	BP381-1
	5kg	BP381-5

*Pre-weighed powder to make 1L. Dissolve in water.
**One tablet dissolved in 200mL water yields 0.01M phosphate buffer, 0.0027M KCl, and 0.137M NaCl, pH 7.4 at 25°C.

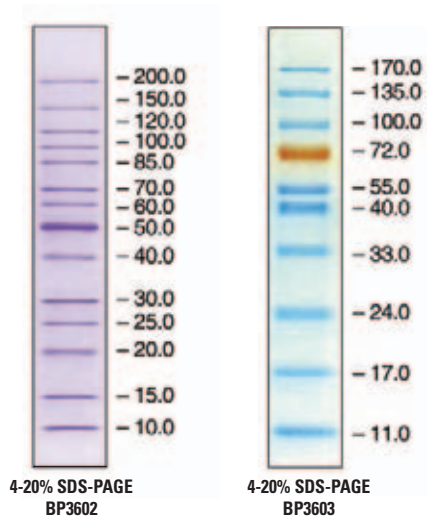




Detergents and Denaturing Agents		
Description	Quantity	Cat. No.
Brij 35	500g	BP345-500
	1g	BP571-1
	5g	BP571-5
SDS	100g	BP166-100
	500g	BP166-500
	5kg	BP166-5
	200mL	BP2436-200
SDS, 10% Solution	1L	BP2436-1
SDS, 20% Solution	200mL	BP1311-200
	1L	BP1311-1
Triton X-100	100mL	BP151-100
	500mL	BP151-500
Tween 20	100mL	BP337-100
	500mL	BP337-500
Tween 80	500mL	BP338-500

EZ-Run™ Protein Standards

- Highly purified markers and ladders provide compact and clear bands
- Prestained standards are indispensable in monitoring protein separation and transfer efficiency
- Reference bands allow quick gel progress assessment
- Unstained standards are most suitable for precise sizing of proteins
- All standards are supplied in loading buffer and are ready to use



Description	MW Range	No. of Bands	Reference Band	Source	Quantity	Cat. No.
Unstained Protein Standards	14.4 to 118.0 kDa	7		Native Proteins	500uL	BP3600-500
					2 x 500uL	BP3600-1
					500uL	BP3602-500
Prestained Protein Standards	10.0 to 200.0 kDa	14	50 kDa	Recombinant Proteins	2 x 500uL	BP3602-1
					500uL	BP3601-500
	20.0 to 118.0 kDa	6		Native Proteins	2 x 500uL	BP3601-1
					500uL	BP3603-500
	11.0 to 170.0 kDa	10	72 kDa	Recombinant Proteins	2 x 500uL	BP3603-1
					500uL	BP3603-500

Agarose
Broad Separation Range for DNA/RNA

Genetic Analysis Grade

packaging	Mfr. No
100 g PolyBottle	BP1356-100
500 g PolyBottle	BP1356-500
C ₁₂ H ₁₈ O ₉ CAS: 9012-36-6 MW: 306.12	

DNase	Not detected
EEO (-Mr)	<0.15
Gel Strength	>1200g/cm2
Gelation Temperature	34.5°-37.5°C
Moisture Content	<10%
RNase	Not detected
Sulfate Content	<0.15%

Applications: Routine nucleic acid electrophoresis; broad resolution range 500 bp to 25kb. Certified for recovery of DNA and RNA. Reliable digestion and ligation of recovered DNA or RNA fragments. Cloning.
Recommended Storage: RT

Agarose
Intermediate Melting

PCR Grade

packaging	Mfr. No
100 g AmberGlass	BP2410-100
C ₁₂ H ₁₈ O ₉ CAS: 9012-36-6 MW: 306.12	

DNase	Not detected
EEO (-Mr)	<=0.12
Gel Strength	>=1200g/cm2
Gelation Temperature	<35.5°C
Melting Temperature	80°C
RNase	Not detected
Sulfate Content	<=0.11%

Applications: Separation of low MW DNA <100 bp. PCR analysis applications.
Recommended Storage: RT

Agarose
High-EEO

Protein Electrophoresis Grade

packaging	Mfr. No
100 g PolyBottle	BP162-100
C ₁₂ H ₁₈ O ₉ CAS: 9012-36-6 MW: 306.12	

DNase	Not detected
EEO (-Mr)	0.23-0.26
Gel Strength	>650g/cm2
Gelation Temperature	34.5°-37.5°C
Moisture Content	<10%
RNase	Not detected
Sulfate Content	<0.15%

Applications: Immunoelectrophoresis (IEP). Crossed-IEP. Counter-immunoelectrophoresis (CIEP). Serum protein electrophoresis.
Recommended Storage: RT

Agarose
Low-Melting, Nucleic Acid Recovery

Molecular Biology Grade

packaging	Mfr. No
25 g PolyBottle	BP165-25
C ₁₂ H ₁₈ O ₉ CAS: 9012-36-6 MW: 306.12	

DNase	Not detected
EEO (-Mr)	<0.10
Gel Strength	>200g/cm2
Gelation Temperature	26°-30°C
Melting Temperature	65°C
Moisture Content	<10%
RNase	Not detected
Sulfate Content	<0.10%

Applications: Original low melting temperature agarose. Nucleic acid separation from 200 bp to 25kb. Preparative DNA and RNA electrophoresis. Ideally suited for DNA and RNA recovery. Cloning of tissue culture cells and viral plaque assays.
Recommended Storage: RT

Agarose
High Gelling Temperature

DNA Grade

packaging	Mfr. No
25 g PolyBottle	BP164-25
100 g PolyBottle	BP164-100
500 g PolyBottle	BP164-500
C ₁₂ H ₁₈ O ₉ CAS: 9012-36-6 MW: 306.12	

DNase	Not detected
EEO (-Mr)	<0.1
Gel Strength	>800g/cm2
Gelation Temperature	<40.5°-43.5°C
Moisture Content	<10%
RNase	Not detected
Sulfate Content	<0.15%

Recommended Storage: RT

Agarose
Low-EEO/Multi-Purpose

Molecular Biology Grade

packaging	Mfr. No
100 g PolyBottle	BP160-100
500 g PolyBottle	BP160-500
C ₁₂ H ₁₈ O ₉ CAS: 9012-36-6 MW: 306.12	

DNase	Not detected
EEO (-Mr)	0.09-0.13
Gel Strength	>1200g/cm2
Gelation Temperature	34°-45°C
Moisture Content	<10%
RNase	Not detected
Sulfate Content	<0.15%

Applications: Routine electrophoresis of DNA and RNA; wide resolution range 500 bp to 23kb. High gel strength ideal for Southern and Northern blotting. PCR >1kb. Immunoprecipitation techniques. Baculovirus screening. Colony lifts.
Recommended Storage: RT



Agarose
Low-Melting, <1kb DNA/RNA

Genetic Analysis Grade

packaging	Mfr. No
100 g PolyBottle	BP1360-100
C ₁₂ H ₁₈ O ₉ CAS: 9012-36-6 MW: 306.12	
DNase Not detected	
EEO (-Mr)	<0.15
Gel Strength	>500g/cm2
Gelation Temperature	<35°C
Melting Temperature	65°C
Moisture Content	<10%
RNase	Not detected
Sulfate Content	<0.15%

Applications: Low melting temperature agarose. Certified recovery of small nucleic acid fragments. Outstanding resolution of PCR and RT-PCR fragments from 50 to 1000 bp. In-gel PCR. In-gel ligations/transformations.
Recommended Storage: RT

Agarose
Medium-EEO

Protein Electrophoresis Grade

packaging	Mfr. No
100 g PolyBottle	BP161-100
C ₁₂ H ₁₈ O ₉ CAS: 9012-36-6 MW: 306.12	
DNase Not detected	
EEO (-Mr)	0.16-0.19
Gel Strength	>1000g/cm2
Gelation Temperature	34.5°-37.5°C
Moisture Content	<10%
RNase	Not detected
Sulfate Content	<0.15%

Applications: Ideal alternative to polyacrylamide for serum protein electrophoresis. Immunoelectrophoresis. Electrophoresis of nucleic acids.
Recommended Storage: RT

Agarose
Agarose Gel-Loading Dye, 6X

Molecular Biology Grade

packaging	Mfr. No
5 mL PolyBottle	BP633-5
description Dark purple slightly viscous liquid	
DNase	Not detected
Optical Absorbance (dilution 1:500 with deionized water) at 525nm	0.3-0.6
Optical Absorbance (dilution 1:500 with deionized water) at 588-594nm	0.5-0.8
Optical Absorbance (dilution 1:500 with deionized water) at 635-641nm	0.5-0.7
RNase	Not detected

Applications: This tracking dye is added to DNA and RNA samples prior to electrophoresis on agarose gels.
Components: Amaranth (<1.0%), Ficoll* (15%), Proprietary Component (<1.0%), and Water.
[915-67-3 (Amaranth)] ; [26873-85-8 (Ficoll*)]
Recommended Storage: RT

Bromophenol Blue
Free Acid

packaging	Mfr. No
25 g AmberGlass	BP115-25
C ₁₉ H ₁₀ Br ₄ O ₅ S CAS: 115-39-9 MW: 669.96	
EINECS: 204-086-2	
E ₁ % _{1cm}	>=1000g-1cm-1
Lambda Max.	591nm ±2nm
Loss on Drying (at 105°C)	<=5%
Solubility	To pass test

Applications: Used as a tracking dye in electrophoresis.
Recommended storage: RT

Bromophenol Blue Sodium Salt

packaging	Mfr. No
25 g AmberGlass	BP114-25
C ₁₉ H ₉ Br ₄ NaO ₅ S CAS: 62625-28-9 MW: 691.94	
H335, H319, H315	
Clarity of Solution	To pass test
E ₁ % _{1cm}	>=800g-1cm-1
Lambda Max. in 0.05M Sodium Acetate	585-595nm
Visual Transition Interval	To pass test

Applications: Commonly used as a tracking dye in electrophoresis.
Recommended storage: RT

Boric Acid
Crystalline

Electrophoresis

packaging	Mfr. No
500 g PolyBottle	BP168-500
1 kg PolyBottle	BP168-1
H ₃ BO ₃ CAS: 10043-35-3 MW: 61.83	
EINECS: 233-139-2	
Assay	>=99.0%
Calcium (Ca)	<=0.005%
Chloride (Cl)	<=0.001%
DNase	Not detected
Electrophoresis	To pass test
Heavy Metals (Pb)	<=0.001%
Insoluble in Methanol	<=0.005%
Iron	<=0.001%
Nonvolatile with Methanol	<=0.05%
Phosphate (PO ₄)	<=0.001%
Sulfate (SO ₄)	<=0.010%

Applications: This high-purity electrophoresis-grade reagent is used in the preparation of Tris/Borate/EDTA electrophoresis buffers.
Recommended Storage: RT

Ethidium Bromide

packaging	Mfr. No
1 g AmberGlass	BP102-1
5 g AmberGlass	BP102-5
C ₂₁ H ₂₀ BrN ₃ CAS: 1239-45-8 MW: 394.3	
EINECS: 214-984-6	
H341, H330, H302 P310, P281, P304+P340	
E ₁ % _{1cm}	
Lambda Max.	480nm ±2nm
Loss on Drying (at 105°C)	<=5%
Solubility	To pass test

Applications: Fluorometric detection of double stranded nucleic acids. Also acts as an RNA polymerase inhibitor, and in separation of high molecular weight DNAs.
Recommended storage: RT

Ethidium Bromide
1% Solution

Molecular Biology

packaging	Mfr. No
10 mL AmberPolyBottle	BP1302-10
C ₂₁ H ₂₀ BrN ₃ CAS: 1239-45-8 MW: 394.3	
EINECS: 214-984-6	
H331, H341 P310, P281, P304+P340	
Appearance Clear, reddish-brown liquid	
DNase	Not detected
Electrophoresis	To pass test
E ₁ % _{1cm}	>100 absorbance units
Lambda Max.	480nm ±2nm
Protease	Not detected
RNase	Not detected

Filtered through a 0.2-micron filter.
Recommended storage: RT

Formaldehyde
37% by Weight

Molecular Biology

packaging	Mfr. No
25 mL AmberGlass	BP531-25
500 mL AmberGlass,EcoSafPak*	BP531-500
CH ₂ O CAS: 50-00-0 MW: 30.02	
EINECS: 200-001-8	
H226, H314, H317, H370, H311, H331, H301, H351	
P280, P301+P330+P331, P305+P351+P338, P304+P340, P302+P352, P301+P312, P210	

Assay (HCHO)	>=36.5-38%
Chloride (Cl)	<=5ppm
Color (APHA)	<=10
Heavy Metals (Pb)	<=5ppm
Iron	<=2ppm
Methanol	10-15%
pH (at 25°C)	3 to 4
Residue after ignition	<=0.005%
Sulfate (SO ₄)	<=0.002%
Titrateable Acid	<=0.006mEq/g

Applications: Molecular Biology-grade Formaldehyde is used for denaturing RNA.
Components: 37% Formaldehyde, 15% Methyl Alcohol and 48% Water.
[50-00-0 (Formaldehyde)] ; [67-56-1 (Methyl Alcohol)]
Recommended Storage: RT
UN 1198; DOT Class 3:Flammable Liquid
EcoSafPak* is an environmentally friendly packaging system made of 100% recyclable material by an SFI certified supplier.

Glycerol Gel-Loading Dye, 5X
Contains 30% Glycerol

Molecular Biology

packaging	Mfr. No
1 mL PolyTube	BP645-1
5 mL PolyBottle	BP645-5
DNase Not detected	
Optical Absorbance (dilution 1:500 with deionized water) at 525nm	0.25-0.45
Optical Absorbance (dilution 1:500 with deionized water) at 588-594nm	0.30-0.45
Optical Absorbance (dilution 1:500 with deionized water) at 635-641nm	0.25-0.40
RNase	Not detected

Applications: This dye is added to DNA and RNA samples prior to electrophoresis on agarose gels.
Components: Glycerol (30%), Proprietary Components (<6%), and Water [56-81-5 (Glycerol)]
Recommended Storage: RT

Glyoxal
40% w/v

Electrophoresis

packaging	Mfr. No
500 mL AmberGlass	BP1370-500
C ₂ H ₂ O ₂ CAS: 107-22-2 MW: 58.04	
EINECS: 203-474-9	
H341, H332, H319, H315, H317	
Density (at 20°C)	
Electrophoresis of RNA	To pass test
pH (at 25°C)	2.0 to 3.5

Applications: Glyoxal is used to denature RNA prior to agarose gel electrophoresis. Since Glyoxal is readily oxidized by air, it should be deionized with a mixed-bed resin, dispensed into aliquots, and then stored at -20°C.
Recommended Storage: 4°C
UN 1760; DOT Class 8:Corrosive



Methanol Peroxide-free		Sequencing
packaging		Mfr. No
1 ℓ	AmberGlass,EcoSafPak*	BP1105-1
4 ℓ	AmberGlass	BP1105-4
CH ₃ O	P301+P310, P280,	
CAS: 67-56-1	P302+P350, P304+P340,	
MW: 32.04	P210, P240	
EINECS: 200-659-6		
H225, H301, H311, H331, H370		
Acetone		To pass test
Assay		>=99.9%
Color (APHA)		<=5
Fluorescence Background (as Quinine Sulfate)		To pass test
Fluorescent Derivatizable Amines		To pass test
IR		Conforms to standard
LC Gradient Suitability		To pass test
Optical Absorbance at 205nm		<=1.00
Optical Absorbance at 220nm		<=0.30
Optical Absorbance at 230nm		<=0.15
Optical Absorbance at 254nm		<=0.025
Peroxides		<=0.001%
Reactive Impurities with H ₂ SO ₄		Not detected
Refractive Index (at 25°C)		1.3260-1.3300
Residue after evaporation		<=3 ppm
Solubility in H ₂ O		To pass test
Substances Reducing Permanganate		To pass test
Titratable Acid		<=0.0003mEq/g
Titratable Base		<=0.0002mEq/g
Water		<=0.1%

Applications: Used in staining and destaining protein electrophoresis gels, in HPLC, and in other biological applications.
Recommended storage: RT
Also available in recyclable FisherPak* and NOWPak* containers. EcoSafPak* is an environmentally friendly packaging system made of 100% recyclable material by an SFI certified supplier.

Sequencing Gel-Loading Dye, 3X Contains 98% Formamide	
packaging	Mfr. No
1 mL PolyTube	BP639-1
DNase	Not detected
Optical Absorbance (dilution 1250 with deionized water) at 525nm	0.40-0.50
Optical Absorbance (dilution 1250 with deionized water) at 588-594nm	0.60-0.75
Optical Absorbance (dilution 1250 with deionized water) at 635-641nm	0.50-0.67
RNase	Not detected

Applications: This loading dye also denatures nucleic acid samples prior to electrophoresis on sequencing gels.
Components: 98% Formamide (<90%), Proprietary Component (<3%), and Water.
[75-12-7 (98% Formamide)]

TBE Buffer Mix Dry Powder Mix of Tris/Boric Acid/EDTA		Electrophoresis
packaging		Mfr. No
86.1 g PolyBottle		BP1396-86
CAS: 610769-35-2		
H360FD, H315, H319, H335		
P280, P305+P351+P338, P201, P308+P313		
DNase		Not detected
Electrophoresis of DNA with 5X diluted buffer		Pass test
pH (at 25°C)		8.3±0.2
RNase		Not detected
Solubility (in 1ℓ final volume)		Clear, colorless with no suspending impurities

Recommended Storage: RT
Applications: Electrophoresis buffer.
Makes 1 liter of 5X buffer. Final concentration of components in 1X buffer: 0.089M Tris, 0.089M Boric Acid, 0.002M EDTA.
[77-86-1 (Tris)] ; [6381-92-6 (EDTA)] ; [10043-35-3 (Boric Acid)]

Tris-Acetate-EDTA 25X Powder		Electrophoresis
packaging		Mfr. No
1 FoilPack		BP1331-1
CAS: 135852-26-5		
Conductivity of a 1X Solution (at 25°C)		1300±200µmhos/cm
DNase		Not detected
Electrophoresis		To pass test
pH (1X solution) (at 25°C)		8.3±0.1
Protease		Not detected
RNase		Not detected
Solubility		To pass test

Applications: Tris-Acetate-EDTA (TAE) is commonly used as a buffer for nucleic acid electrophoresis.
Each pack contains preweighed powder to make 1ℓ of a 25X solution (1M Tris-Acetate and 0.025M EDTA).
Components: Tris (64.36%), Acetic Acid, Sodium Salt (31.91%) and Ethylenediamine Tetraacetic Acid (3.72%).
[77-86-1 (Tris)] ; [127-09-3 (Acetic Acid, Sodium Salt)] ; [60-00-4 (EDTA)]
Recommended Storage: RT

Tris-Borate-EDTA 10X Powder		Electrophoresis
packaging		Mfr. No
1		BP1334-1
CAS: 610769-35-2		
H360FD, H315, H319, H335		
P280, P305+P351+P338, P201, P308+P313		
DNase		Not detected
Electrophoresis		To pass test
pH (1X solution) (at 25°C)		8.3±0.1
Protease		Not detected
RNase		Not detected
Solubility (1X concentration 1g/60mℓ H ₂ O)		Clear, colorless with no suspending impurities

Applications: Tris-Borate-EDTA (TBE) is commonly used as a buffer for nucleic acid electrophoresis.
Each pack contains preweighed powder to make 1ℓ of a 10X solution (0.89M Tris Base, 0.89M Boric Acid, and 0.02M EDTA).
Components: Tris (63.91%), Boric Acid (32.54%), and EDTA (3.55%).
[77-86-1 (Tris)] ; [10043-35-3 (Boric Acid)] ; [60-00-4 (EDTA)]
Recommended Storage: RT

Tris Buffer 2M Solution		Molecular Biology
packaging		Mfr. No
100 mL PolyBottle		BP1759-100
500 mL PolyBottle		BP1759-500
CAS: 77-86-1	P280, P305+P351+P338,	
EINECS: 201-064-4	P261, P302+P352, P264, P271	
H315, H319, H335		
Arsenic	<0.0005%	
Copper	<0.0001%	
DNase	Not detected	
Iron	<0.0001%	
Lead	<0.0001%	
Magnesium (Mg)	<0.0005%	
Optical Absorbance of a 1M Solution at 280nm	<0.05	
pH (at 25°C)	10.1-11.1	
Protease	Not detected	
RNase	Not detected	
Tris Concentration	2±0.05M	

Applications: Tris is a buffer component in molecular biology, tissue culture, and electrophoresis procedures.
Tris Solution, 2M, provides a convenient stock solution for preparing Tris buffers.
Recommended Storage: RT

Tris Buffer 0.3M Solution		Molecular Biology
packaging		Mfr. No
500 mL PolyBottle		BP1761-500
1 ℓ PolyBottle		BP1761-1
CAS: 77-86-1		
EINECS: 201-064-4		
DNase		Not detected
Molarity		0.3±0.010
pH (at 25°C)		10.1 to 11.1
Protease		Not detected
RNase		Not detected

Applications: Tris is a buffer component in molecular biology, tissue culture, and electrophoresis procedures.
Tris Solution, 0.3M, provides a convenient stock solution for these applications.
Recommended Storage: RT

Tris-EDTA 100X Powder		Molecular Biology
packaging		Mfr. No
1 FoilPack		BP1339-1
CAS: 38641-82-6		
H315, H319, H335		
P280, P261, P305+P351+P338, P302+P352, P264, P271		
Conductivity of a 1X Solution (at 25°C)		560 to 740µmhos/cm
DNase		Not detected
pH (1X solution) (at 23°C)		8.0±0.1
Protease		Not detected
RNase		Not detected
Solubility		To pass test

Applications: Tris-EDTA (TE) is routinely used for suspending nucleic acid samples.
Each pack contains preweighed powder to make 1ℓ of a 100X solution (1.0M Tris Base and 0.1M EDTA).
[77-86-1 (Tris)] ; [60-00-4 (EDTA)]
Recommended Storage: RT

Tris Hydrochloride Solution pH 7.0 1M solution, High Purity, Low Metal		Molecular Biology
packaging		Mfr. No
100 mL PolyBottle		BP1756-100
500 mL PolyBottle		BP1756-500
CAS: 1185-53-1	P280, P305+P351+P338,	
EINECS: 214-684-5	P302+P352	
H315, H319		
Arsenic	<0.0005%	
Calcium (Ca)	<0.0002%	
Copper	<0.0001%	
DNase	Not detected	
Iron	<0.0001%	
Lead	<0.0001%	
Magnesium (Mg)	<0.0005%	
Molar Concentration	1±0.04M	
Protease	Not detected	
RNase	Not detected	
Zinc	<0.0001%	

Applications: Tris is a buffer component in molecular biology, tissue culture, and electrophoresis procedures.
[77-86-1 (Tris)] ; [1185-53-1 (Tris HCl)]
Recommended Storage: RT
Filtered through a 0.2-micron filter.

Tris Hydrochloride Solution pH 7.5 1M solution, High Purity, Low Metal		Molecular Biology
packaging		Mfr. No
100 mL PolyBottle		BP1757-100
500 mL PolyBottle		BP1757-500
CAS: 1185-53-1	P280, P305+P351+P338,	
EINECS: 214-684-5	P302+P352	
H315, H319		
Arsenic	<0.0005%	
Calcium (Ca)	<0.0002%	
Copper	<0.0001%	
DNase	Not detected	
Iron	<0.0001%	
Lead	<0.0001%	
Magnesium (Mg)	<0.0005%	
Molar Concentration	1±0.04M	
Protease	Not detected	
RNase	Not detected	
Zinc	<0.0001%	

Applications: Tris is a buffer component in molecular biology, tissue culture, and electrophoresis procedures.
[77-86-1 (Tris)] ; [1185-53-1 (Tris HCl)]
Recommended Storage: RT
Filtered through a 0.2-micron filter.



Tris Hydrochloride Solution pH 8.0 1M solution, High Purity, Low Metal		Molecular Biology
packaging	Mfr. No	
100 mL PolyBottle	BP1758-100	
500 mL PolyBottle	BP1758-500	
CAS: 1185-53-1	P280, P305+P351+P338,	
EINECS: 214-684-5	P302+P352	
H315, H319		
Arsenic	<0.0005%	
Calcium (Ca)	<0.0002%	
Copper	<0.0001%	
DNase	Not detected	
Iron	<0.0001%	
Lead	<0.0001%	
Magnesium (Mg)	<0.0005%	
Molar Concentration	1±0.04M	
Protease	Not detected	
RNase	Not detected	
Zinc	<0.0001%	

Applications: Tris is a buffer component in molecular biology, tissue culture, and electrophoresis procedures.
[77-86-1 (Tris)] ; [1185-53-1 (Tris HCl)]
Recommended Storage: RT
Filtered through a 0.2-micron filter.

Tris-Acetate-EDTA 25X Solution		Electrophoresis
packaging	Mfr. No	
1 L PolyBottle	BP1330-1	
CAS: 135852-26-5		
H315, H319		
P264, P280, P305+P351+P338,		
P302+P352		
Conductivity of a 1X Solution (at 25°C)	Report	
DNase	Not detected	
Electrophoresis	To pass test	
pH (1X solution) (at 25°C)	8.3±0.1	
Protease	Not detected	
RNase	Not detected	

Applications: Tris-Acetate-EDTA (TAE) is commonly used as a buffer for nucleic acid electrophoresis.
1M Tris-Acetate and 0.025M EDTA.
Components: Tris (11.31%), EDTA Disodium Salt (0.87%), Acetic Acid, Sodium Salt (7.66%), and Hydrogen Chloride (3.74%).
[77-86-1 (Tris)] ; [6381-92-6 (EDTA Disodium Salt)] ; [127-09-3 (Acetic Acid, Sodium Salt)] ; [7647-01-0 (Hydrogen Chloride)]
Recommended Storage: RT
Filtered through a 0.2-micron filter.

Tris-Acetate-EDTA 10X Solution		Electrophoresis
packaging	Mfr. No	
500 mL PolyBottle	BP1335-500	
1 L PolyBottle	BP1335-1	
4 L PolyPac*	BP1335-4	
20 L PolyPac*	BP1335-20	
CAS: 135852-26-5		
H315, H319		
P264, P280, P305+P351+P338,		
P302+P352		
DNase	Not detected	
Electrophoresis	To pass test	
pH (1X solution) (at 25°C)	8.2-8.4	
Protease	Not detected	
RNase	Not detected	

Applications: Tris-Acetate-EDTA (TAE) is commonly used as a buffer for nucleic acid electrophoresis.
0.4M Tris-Acetate and 0.01M EDTA.
Components: Tris (<5.0%), Acetic Acid (1.0%), and EDTA (<1%).
[77-86-1 (Tris)] ; [64-19-7 (Acetic Acid)] ; [60-00-4 (EDTA)]
Recommended Storage: RT
Filtered through a 0.2-micron filter.

Tris-Acetate-EDTA 50X Solution		Electrophoresis
packaging	Mfr. No	
500 mL PolyBottle	BP1332-500	
1 L PolyBottle	BP1332-1	
4 L PolyPac*	BP1332-4	
20 L PolyPac*	BP1332-20	
CAS: 135852-26-5		
H315, H319		
P264, P280, P305+P351+P338,		
P302+P352		
Conductivity of a 1X Solution (at 25°C)	Report	
DNase	Not detected	
Electrophoresis	To pass test	
pH (1X solution) (at 25°C)	8.2-8.4	
Protease	Not detected	
RNase	Not detected	

Applications: Tris-Acetate-EDTA (TAE) is commonly used as a buffer for nucleic acid electrophoresis.
2M Tris-Acetate and 0.050M EDTA.
Components: Tris (24%), Acetic Acid (5.0%), and EDTA (<2%).
[77-86-1 (Tris)] ; [64-19-7 (Acetic Acid)] ; [60-00-4 (EDTA)]
Recommended Storage: RT
Filtered through a 0.2-micron filter.

Tris-Acetate-EDTA 1X Solution		Electrophoresis
packaging	Mfr. No	
4 L PolyPac*	BP2434-4	
20 L PolyPac*	BP2434-20	
CAS: 135852-26-5		
Conductivity of a 1X Solution (at 25°C)	Report	
DNase	Not detected	
Electrophoresis	To pass test	
pH (1X solution) (at 25°C)	8.3±0.1	
Protease	Not detected	
RNase	Not detected	

Applications: Tris-Acetate-EDTA (TAE) is commonly used as a buffer for nucleic acid electrophoresis.
0.04M Tris-Acetate and 0.001M EDTA.
[77-86-1 (Tris)] ; [64-19-7 (Acetic Acid)] ; [60-00-4 (EDTA)]
Recommended Storage: RT
Filtered through a 0.2-micron filter.

Tris-Borate-EDTA 10X Solution		Electrophoresis
packaging	Mfr. No	
1 L PolyBottle	BP1333-1	
4 L PolyPac*	BP1333-4	
20 L PolyPac*	BP1333-20	
CAS: 610769-35-2		
H360FD, H315, H319		
P280, P305+P351+P338, P308+P313,		
P201		
Conductivity of 1X solution (at 25°C)	750-1250µmhos/cm	
DNase	Not detected	
Electrophoresis	To pass test	
pH (1X solution) (at 25°C)	8.3±0.1	
Protease	Not detected	
RNase	Not detected	

Applications: Tris-Borate-EDTA (TBE) is commonly used as a buffer for nucleic acid electrophoresis.
0.89M Tris Base, 0.89M Boric Acid, and 0.02M EDTA.
Components: Tris (10.8%), Boric Acid (5.5%), and EDTA (0.6%) [77-86-1 (Tris)] ; [10043-35-3 (Boric Acid)] ; [60-00-4 (EDTA)]
Recommended Storage: RT
Filtered through a 0.2-micron filter.

Tris-Borate-EDTA 1X Solution		Electrophoresis
packaging	Mfr. No	
1 L PolyBottle	BP2430-1	
4 L PolyPac*	BP2430-4	
20 L PolyPac*	BP2430-20	
CAS: 610769-35-2		
DNase	Not detected	
Electrophoresis	To pass test	
pH of 1X solution (at 25°C)	8.3±0.1	
Protease	Not detected	
RNase	Not detected	

Applications: Tris-Borate-EDTA (TBE) is commonly used as a buffer for nucleic acid electrophoresis.
0.089M Tris Base, 0.089M Boric Acid, and 0.002M EDTA.
[77-86-1 (Tris)] ; [6381-92-6 (EDTA)] ; [10043-35-3 (Boric Acid)]
Recommended Storage: RT
Filtered through a 0.2-micron filter.

Tris-EDTA 100X Solution		Molecular Biology
packaging	Mfr. No	
1 L PolyBottle	BP1338-1	
4 L PolyPac*	BP1338-4	
CAS: 38641-82-6		
H315, H319		
P280, P305+P351+P338,		
P302+P352		
DNase	Not detected	
pH (1X solution) (at 23°C)	8.0±0.1	
Protease	Not detected	
RNase	Not detected	

Applications: Tris-EDTA (TE) is routinely used for suspending nucleic acid samples.
1.0M Tris Base and 0.1M EDTA.
[77-86-1 (Tris)] ; [60-00-4 (EDTA)]
Recommended Storage: RT
Filtered through a 0.2-micron filter.

Xylene Cyanole FF Bluish-green Powder		Electrophoresis
packaging	Mfr. No	
10 g AmberGlass	BP565-10	
C ₂₅ H ₂₇ N ₂ NaO ₆ S ₂	H315, H319, H335	
CAS: 2650-17-1	P280, P305+P351+P338	
MW: 538.61		
EINECS: 220-167-5		
Absorption Maxima	614±2nm	
DNase	Not detected	
Loss on Drying (at 105°C)	<=10.0%	
Molar Absorbance (Em, H2O)	>30.000	
RNase	Not detected	

Applications: This dye is used in electrophoretic applications to mark the migration position of nucleic acid fragments.
Recommended Storage: RT
C.I. 42135

100 Base-Pair Ladder	
packaging	Mfr. No
50 µg PolyMicroTube	BP2551-50

Applications: For precise sizing of double-stranded DNA fragments from 100-2000 bp on agarose gels.
Supplied at 1µg/µl in TE buffer.
Consists of multiple repeats of a 100 bp fragment.
Not designed for quantifying DNA content in a sample.
Can be visualized by ethidium bromide staining or by autoradiography (after radiolabeling).
Recommended Gel: 1.5% agarose with loading amount of 2.0µg/lane.
Do not heat before loading.
Recommended Storage: -20°C
Not on TSCA inventory: for R and D use only; not for manufacturing or commercial purposes.

Fisher BioReagents* *exACTGene**
50 bp Mini DNA Ladder

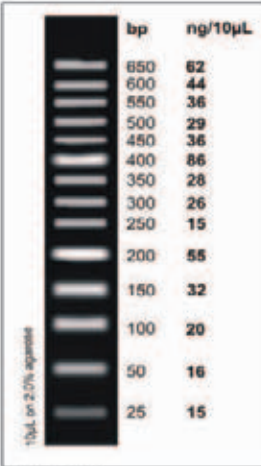
- Ready-to-use DNA size standards are stable at room temperature—no need to thaw and refreeze
- ▶ 25-650 bp range
 - ▶ **Number of Bands:** 14
 - ▶ Higher intensity reference band at 200 and 400 bp
 - ▶ Ideal for size determination and quantitative determination of DNA mass
 - ▶ Contain loading dye to reduce pipetting steps and save time
 - ▶ Provided in sufficient quantity to load 100 lanes

APPLICATIONS: PCR Size Confirmation

INCLUDES: 1mL of premixed ladder (0.5µg/10µL) in loading dye (10mM EDTA, 10% glycerol, 0.015% bromophenol blue, 0.17% SDS).

STORAGE CONDITIONS: Stable at room temperature for two years.

Quantity	Packaging	MFR No.
1000µL	Poly Micro Tube	BP2570-100



BP2570-100

Fisher BioReagents* *exACTGene**
Low Range DNA Ladder

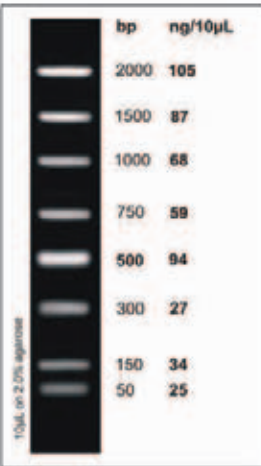
- Ready-to-use DNA size standards are stable at room temperature—no need to thaw and refreeze
- ▶ 50-2000 bp range
 - ▶ **Number of Bands:** 8
 - ▶ Higher intensity reference band at 500 bp
 - ▶ Ideal for size assessment and quantitative determination of DNA mass
 - ▶ Contain loading dye to reduce pipetting steps and save time
 - ▶ Provided in sufficient quantity to load 100 lanes

APPLICATIONS: Quick Check of PCR Amplicons or Enzyme Digestion results

INCLUDES: 1mL of premixed ladder (0.5µg/10µL) in loading dye (10mM EDTA, 10% glycerol, 0.015% bromophenol blue, 0.17% SDS).

STORAGE CONDITIONS: Stable at room temperature for two years.

Quantity	Packaging	MFR No.
1000µL	Poly Micro Tube	BP2572-100



BP2572-100

Fisher BioReagents* *exACTGene**
100 bp DNA Ladder

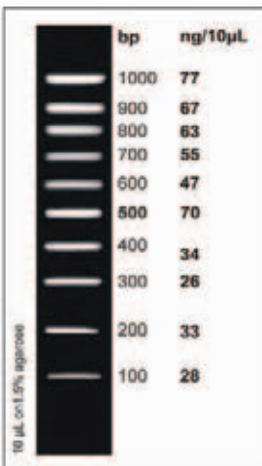
- Ready-to-use DNA size standards are stable at room temperature—no need to thaw and refreeze
- ▶ 100-1000 bp range
 - ▶ **Number of Bands:** 10
 - ▶ Higher intensity reference band at 500 bp
 - ▶ Ideal for size assessment and quantitative determination of DNA mass
 - ▶ Contain loading dye to reduce pipetting steps and save time
 - ▶ Provided in sufficient quantity to load 100 lanes

APPLICATIONS: General Purpose and Small Size DNA

INCLUDES: 1mL of premixed ladder (0.5µg/10µL) in loading dye (10mM EDTA, 10% glycerol, 0.015% bromophenol blue, 0.17% SDS).

STORAGE CONDITIONS: Stable at room temperature for two years.

Quantity	Packaging	MFR No.
1000µL	Poly Micro Tube	BP2573-100



BP2573-100

Fisher BioReagents* *exACTGene**
Mid Range DNA Ladder

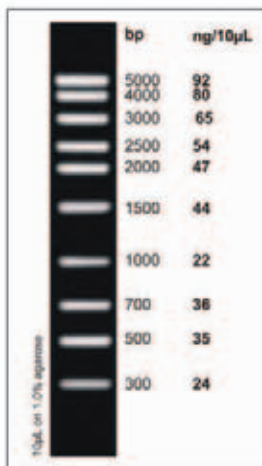
- Ready-to-use DNA size standards are stable at room temperature—no need to thaw and refreeze
- ▶ 300-5000 bp range
 - ▶ **Number of Bands:** 10
 - ▶ Ideal for size assessment and quantitative determination of DNA mass
 - ▶ Contain loading dye to reduce pipetting steps and save time
 - ▶ Provided in sufficient quantity to load 100 lanes

APPLICATIONS: Large Size PCR confirmation or cloning application

INCLUDES: 1mL of premixed ladder (0.5µg/10µL) in loading dye (10mM EDTA, 10% glycerol, 0.015% bromophenol blue, 0.17% SDS).

STORAGE CONDITIONS: Stable at room temperature for two years.

Quantity	Packaging	MFR No.
1000µL	Poly Micro Tube	BP2576-100



BP2576-100

Fisher BioReagents* *exACTGene**
100 bp PCR DNA Ladder

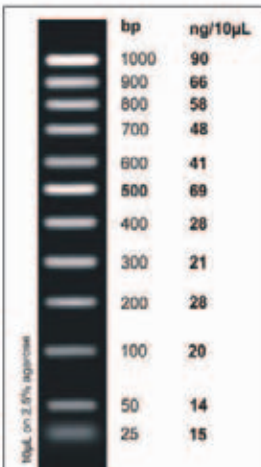
- Ready-to-use DNA size standards are stable at room temperature—no need to thaw and refreeze
- ▶ 25-1000 bp range
 - ▶ **Number of Bands:** 12
 - ▶ Higher intensity reference band at 500 bp
 - ▶ Ideal for size assessment and quantitative determination of DNA mass
 - ▶ Contain loading dye to reduce pipetting steps and save time
 - ▶ Provided in sufficient quantity to load 100 lanes

APPLICATIONS: PCR Size Confirmation and Small DNA Digests

INCLUDES: 1mL of premixed ladder (0.5µg/10µL) in loading dye (10mM EDTA, 10% glycerol, 0.015% bromophenol blue, 0.17% SDS).

STORAGE CONDITIONS: Stable at room temperature for two years.

Quantity	Packaging	MFR No.
1000µL	Poly Micro Tube	BP2571-100



BP2571-100

Fisher BioReagents* *exACTGene**
Low Range Plus DNA Ladder

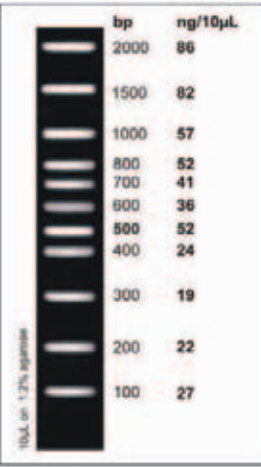
- Ready-to-use DNA size standards are stable at room temperature—no need to thaw and refreeze
- ▶ 100-2000 bp range
 - ▶ **Number of Bands:** 11
 - ▶ Higher intensity reference band at 500 bp
 - ▶ Ideal for size assessment and quantitative determination of DNA mass
 - ▶ Contain loading dye to reduce pipetting steps and save time
 - ▶ Provided in sufficient quantity to load 100 lanes

APPLICATIONS: Fast Run Times, Small Size DNA

INCLUDES: 1mL of premixed ladder (0.5µg/10µL) in loading dye (10mM EDTA, 10% glycerol, 0.015% bromophenol blue, 0.17% SDS).

STORAGE CONDITIONS: Stable at room temperature for two years.

Quantity	Packaging	MFR No.
1000µL	Poly Micro Tube	BP2574-100



BP2574-100

Fisher BioReagents* *exACTGene**
Cloning DNA Ladder

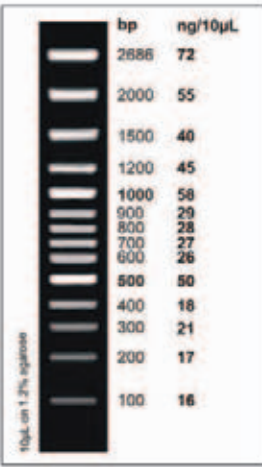
- Ready-to-use DNA size standards are stable at room temperature—no need to thaw and refreeze
- ▶ 100-2686 bp range
 - ▶ **Number of Bands:** 14
 - ▶ Higher intensity reference band at 500 and 1000 bp
 - ▶ Ideal for size assessment and quantitative determination of DNA mass
 - ▶ A 2686 bp (pUC 19) reference band for clone identification
 - ▶ Contain loading dye to reduce pipetting steps and save time
 - ▶ Provided in sufficient quantity to load 100 lanes

APPLICATIONS: Clone Identification

INCLUDES: 1mL of premixed ladder (0.5µg/10µL) in loading dye (10mM EDTA, 10% glycerol, 0.015% bromophenol blue, 0.17% SDS).

STORAGE CONDITIONS: Stable at room temperature for two years.

Quantity	Packaging	MFR No.
1000µL	Poly Micro Tube	BP2575-100



BP2575-100

Fisher BioReagents* *exACTGene**
Mid Range Plus DNA Ladder

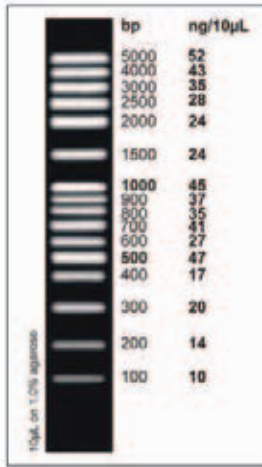
- Ready-to-use DNA size standards are stable at room temperature—no need to thaw and refreeze
- ▶ 100-5000 bp range
 - ▶ **Number of Bands:** 16
 - ▶ Higher intensity reference band at 500 and 1000 bp
 - ▶ Ideal for size assessment and quantitative determination of DNA mass
 - ▶ Contain loading dye to reduce pipetting steps and save time
 - ▶ Provided in sufficient quantity to load 100 lanes

APPLICATIONS: Small and Large Cloning Applications

INCLUDES: 1mL of premixed ladder (0.5µg/10µL) in loading dye (10mM EDTA, 10% glycerol, 0.015% bromophenol blue, 0.17% SDS).

STORAGE CONDITIONS: Stable at room temperature for two years.

Quantity	Packaging	MFR No.
1000µL	Poly Micro Tube	BP2577-100



BP2577-100

Fisher BioReagents* *exACTGene**
1kb DNA Ladder

Ready-to-use DNA size standards
are stable at room temperature—
no need to thaw and refreeze

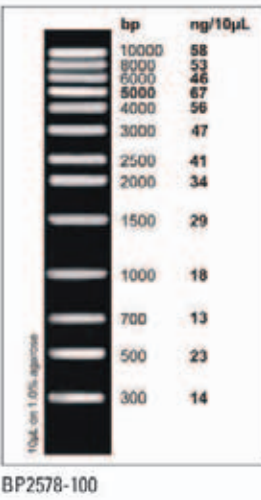
- ▶ 300-10,000 bp range
- ▶ **Number of Bands:** 13
- ▶ Higher intensity reference band at 5000 bp
- ▶ Ideal for size assessment and quantitative determination of DNA mass
- ▶ Contain loading dye to reduce pipetting steps and save time
- ▶ Provided in sufficient quantity to load 100 lanes

APPLICATIONS: General Purpose, Large
Digested DNA

INCLUDES: 1mL of premixed ladder (0.5µg/10µL)
in loading dye (10mM EDTA, 10% glycerol,
0.015% bromophenol blue, 0.17% SDS).

STORAGE CONDITIONS: Stable at room temperature for two years.

Quantity	Packaging	MFR No.
1000µL	Poly Micro Tube	BP2578-100



Fisher BioReagents* *exACTGene**
24kb Max DNA Ladder

Ready-to-use DNA size standards
are stable at room temperature—
no need to thaw and refreeze

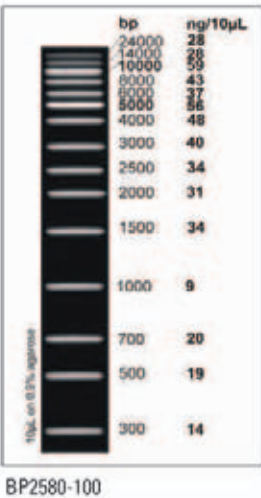
- ▶ 300-24,000 bp range
- ▶ **Number of Bands:** 15
- ▶ Higher intensity reference band at 10,000 bp
- ▶ Ideal for wide range size assessment and quantitative determination of DNA mass
- ▶ Contain loading dye to reduce pipetting steps and save time
- ▶ Provided in sufficient quantity to load 100 lanes

APPLICATIONS: General Purpose, Extra Large
Size DNA

INCLUDES: 1mL of premixed ladder (0.5µg/10µL)
in loading dye (10mM EDTA, 10% glycerol,
0.015% bromophenol blue, 0.17% SDS).

STORAGE CONDITIONS: Stable at room
temperature for two years.

Quantity	Packaging	MFR No.
1000µL	Poly Micro Tube	BP2580-100



Fisher BioReagents* *exACTGene**
1kb Plus DNA Ladder

Ready-to-use DNA size standards
are stable at room temperature—
no need to thaw and refreeze

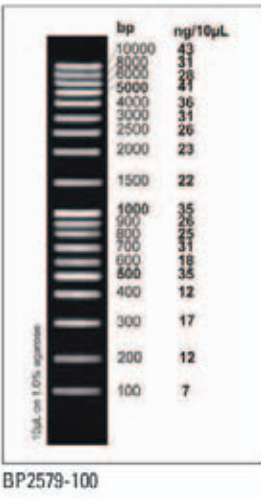
- ▶ 100-10,000 bp range
- ▶ **Number of Bands:** 19
- ▶ Higher intensity reference band at 500, 1000 and 5000 bp
- ▶ Ideal for wide range size assessment and quantitative determination of DNA mass
- ▶ Contain loading dye to reduce pipetting steps and save time
- ▶ Provided in sufficient quantity to load 100 lanes

APPLICATIONS: General Purpose, Wide DNA
Size Range

INCLUDES: 1mL of premixed ladder (0.5µg/10µL)
in loading dye (10mM EDTA, 10% glycerol,
0.015% bromophenol blue, 0.17% SDS).

STORAGE CONDITIONS: Stable at room temperature for two years.

Quantity	Packaging	MFR No.
1000µL	Poly Micro Tube	BP2579-100

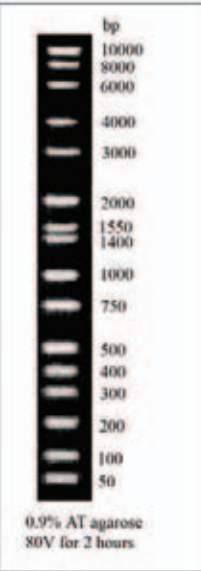


Fisher BioReagents* Routine DNA
Ladders

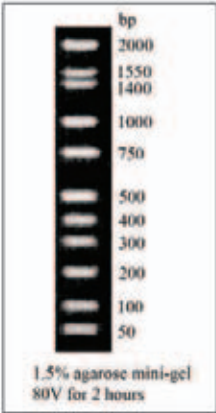
Ready-to-use DNA size
standards are room-
temperature
stable for up to
two years

- ▶ Both ladders include a
landmark doublet at
1400 and 1550 bp

Marker (Base Pair Range)	No. of Bands	Application	Size	MFR No.
100 bp Low Scale DNA Ladder (50 to 2000 bp)	11	PCR Size Confirmation	1000µL (200 loadings)	BP2581-200
1kb Full Scale DNA Ladder (50 to 10,000 bp)	16	General Purpose, Wide DNA Size Range	1000µL (200 loadings)	BP2582-200



BP2582-200



BP2581-200