Fisher BioReagents®

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

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/Cel 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

Bench to batch
Fisher BioReagents are packaged in sizes to meet your needs.
**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).

**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 make one more suitable than the other for a specific purpose.

**TAE, DNase-, RNase-free and Protease-free**

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Concentration</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>BP243-4</td>
<td>1X</td>
<td>4L</td>
</tr>
<tr>
<td>BP243-20</td>
<td>1X</td>
<td>20L</td>
</tr>
<tr>
<td>BP243-500</td>
<td>1X</td>
<td>500mL</td>
</tr>
<tr>
<td>BP138-1</td>
<td>1X</td>
<td>1L</td>
</tr>
<tr>
<td>BP135-5</td>
<td>1X</td>
<td>5L</td>
</tr>
<tr>
<td>BP136-4</td>
<td>1X</td>
<td>4L</td>
</tr>
<tr>
<td>BP136-20</td>
<td>1X</td>
<td>20L</td>
</tr>
<tr>
<td>BP136-500</td>
<td>1X</td>
<td>500mL</td>
</tr>
<tr>
<td>BP137-4</td>
<td>1X</td>
<td>4L</td>
</tr>
<tr>
<td>BP137-20</td>
<td>1X</td>
<td>20L</td>
</tr>
<tr>
<td>BP137-500</td>
<td>1X</td>
<td>500mL</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Concentration</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>BP1334-1</td>
<td>1X</td>
<td>1L</td>
</tr>
<tr>
<td>BP1334-4</td>
<td>1X</td>
<td>4L</td>
</tr>
<tr>
<td>BP1335-20</td>
<td>1X</td>
<td>20L</td>
</tr>
<tr>
<td>BP1336-86</td>
<td>1X</td>
<td>86L</td>
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<td>BP1334-1</td>
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<td>1L</td>
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<tr>
<td>BP1334-5</td>
<td>10X</td>
<td>5L</td>
</tr>
<tr>
<td>BP1334-1</td>
<td>10X</td>
<td>1L</td>
</tr>
<tr>
<td>BP1334-1</td>
<td>10X</td>
<td>1L</td>
</tr>
</tbody>
</table>

**TBE, DNase- and RNase-free**

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Concentration</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>BP152-1</td>
<td>1X</td>
<td>1L</td>
</tr>
<tr>
<td>BP152-4</td>
<td>1X</td>
<td>4L</td>
</tr>
<tr>
<td>BP152-20</td>
<td>1X</td>
<td>20L</td>
</tr>
<tr>
<td>BP152-500</td>
<td>1X</td>
<td>500mL</td>
</tr>
<tr>
<td>BP1334-1</td>
<td>1X</td>
<td>1L</td>
</tr>
</tbody>
</table>

**Buffer Components for DNA Electrophoresis**

**Tris Base**

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>BP152-1</td>
<td>1kg</td>
</tr>
<tr>
<td>BP152-5</td>
<td>5kg</td>
</tr>
<tr>
<td>BP152-10</td>
<td>10kg</td>
</tr>
<tr>
<td>BP152-20</td>
<td>20kg</td>
</tr>
</tbody>
</table>

**Boric Acid**

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>BP158-5</td>
<td>5kg</td>
</tr>
<tr>
<td>BP158-10</td>
<td>10kg</td>
</tr>
</tbody>
</table>

**EDTA Disodium Salt**

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>BP121-5</td>
<td>5kg</td>
</tr>
<tr>
<td>BP121-10</td>
<td>10kg</td>
</tr>
</tbody>
</table>
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 RNAase-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.

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.

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.

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

Buffers for Protein Electrophoresis

Acrylamide, Bio-Acrylamide and Catalysts

Fisher BioReagents®
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Fisher BioReagents®
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### EZ-Run™ Protein Standards

- Highly purified markers and ladders provide compact and clear bands
- Preamplified 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

<table>
<thead>
<tr>
<th>Description</th>
<th>MW Range</th>
<th>No. of Bands</th>
<th>Reference Band</th>
<th>Source</th>
<th>Quantity</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unstained Protein Standards</td>
<td>14.4 to 118.0 kDa</td>
<td>7</td>
<td>Native Proteins</td>
<td>Source: BP</td>
<td>1000 µL</td>
<td>BP360-500</td>
</tr>
<tr>
<td></td>
<td>10.0 to 200.0 kDa</td>
<td>14</td>
<td>Recombinant Proteins</td>
<td>Source: BP</td>
<td>2 x 500 µL</td>
<td>BP360-1</td>
</tr>
<tr>
<td>Restricted Protein Standards</td>
<td>20.0 to 118.0 kDa</td>
<td>6</td>
<td>Native Proteins</td>
<td>Source: BP</td>
<td>2 x 500 µL</td>
<td>BP360-1</td>
</tr>
<tr>
<td></td>
<td>11.0 to 170.0 kDa</td>
<td>10</td>
<td>Recombinant Proteins</td>
<td>Source: BP</td>
<td>2 x 500 µL</td>
<td>BP360-1</td>
</tr>
</tbody>
</table>

### Applications
- Routine molecular and electrophoretic broad resolution range, 500 bp to 23kb. Certified for recovery of DNA and RNA. Reliably digests and ligates of recovered DNA or RNA fragments. Cloning.
- Recommended Storage: RT

### Related Products
- SDS, 10% Solution
- Tween 20
- Triton X-100
- SDS, 20% Solution
- SDS 100 g
- Tween 80
- Brij 35
- CHAPS
- Detergents and Denaturing Agents

---

### DNA Grades

<table>
<thead>
<tr>
<th>Description</th>
<th>MW Range</th>
<th>No. of Bands</th>
<th>Reference Band</th>
<th>Source</th>
<th>Quantity</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unstained Protein Standards</td>
<td>500 bp to 23kb</td>
<td>7</td>
<td>Native Proteins</td>
<td>Source: BP</td>
<td>1000 µL</td>
<td>BP360-500</td>
</tr>
<tr>
<td></td>
<td>500 bp to 23kb</td>
<td>10</td>
<td>Recombinant Proteins</td>
<td>Source: BP</td>
<td>2 x 500 µL</td>
<td>BP360-1</td>
</tr>
</tbody>
</table>

### Applications
- Routine electrophoresis of DNA and RNA; wide resolution range, 500 bp to 23kb. High gel strength ideal for Southern and Northern blotting.
- Recommended Storage: RT
## Molecular Biology | Electrophoresis of Nucleic Acids

### Agarose

<table>
<thead>
<tr>
<th>Low-Melting, &lt;1kb DNA/RNA</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Packaging</strong></td>
</tr>
<tr>
<td>BP150-100</td>
</tr>
<tr>
<td>BP155-25</td>
</tr>
</tbody>
</table>

### Agarose Blue Free Acid

<table>
<thead>
<tr>
<th><strong>Components:</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CAS:</strong></td>
</tr>
<tr>
<td><strong>MW:</strong></td>
</tr>
<tr>
<td><strong>C12H18O9</strong></td>
</tr>
</tbody>
</table>

#### Applications:
- Electrophoresis of nucleic acids.
- PCR and RT-PCR fragments from 50 to 1000 bp.
- Certified recovery of small nucleic acid fragments.
- Outstanding resolution of DNA and RNA.

#### Properties:
- **Optical Absorbance:**
  - (dilution 1:500 with deionized water) at 635-641nm
  - Lambda Max.: >1000 g-1 cm-1

#### Applications:
- Used as a tracking dye in electrophoresis.

### Agarose Medium-ED

| **Packaging** | Mfr. No | |
|----------------|---------|
| BP61-100 | 500 | PolyTube |

### Agarose Blue Sodium Salt

<table>
<thead>
<tr>
<th><strong>Components:</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CAS:</strong></td>
</tr>
<tr>
<td><strong>MW:</strong></td>
</tr>
</tbody>
</table>

#### Applications:
- Used as a tracking dye in electrophoresis.

### Boric Acid Crystalline

| **Packaging** | Mfr. No | |
|----------------|---------|
| BP168-500 | 5 | PolyTube |

### Ethidium Bromide 1% Solution

| **Packaging** | Mfr. No | |
|----------------|---------|
| BP150-10 | 1 | 1% AmberClass |
| BP155-5 | 5 | AmberClass |

### Glycerol Gel-Loading Dye, 5X

| **Packaging** | Mfr. No | |
|----------------|---------|
| BP1360-100 | 1 kg | PolyBottle |
| BP115-25 | 1% Solution |

### Formaldehyde 37% Weight

| **Packaging** | Mfr. No | |
|----------------|---------|
| BP150-10 | 25 | AmberClass |
| BP1370-500 | 1 g | PolyTube |

### Glycerolaceous Dye (Gly色素)

| **Packaging** | Mfr. No | |
|----------------|---------|
| BP370-500 | 1 | 40% w/v |

---

**Notes:**
- Not detected
- Not detected
- Not detected
- Not detected
- Not detected

**Components:**
- **Amaranth (<1.0%)**, **Ficoll® (15%)**, **Proprietary Component (<6%)**, **Glycerol (30%)**, **Proprietary Components (<6%)**, and **Water**.
- **Amaranth (<1.0%)**, **Ficoll® (15%)**, **Proprietary Component (<6%)**, **Glycerol (30%)**, **Proprietary Components (<6%)**, **Water**, and **Sodium Lauryl Sulfate**.
- **Amaranth (<1.0%)**, **Ficoll® (15%)**, **Proprietary Component (<6%)**, **Water**.
- **Amaranth (<1.0%)**, **Ficoll® (15%)**, **Proprietary Component (<6%)**, and **Water**.

**Application:**
- This tracking dye is added to DNA and RNA samples prior to electrophoresis on agarose gels.

**Components:**
- **Amaranth (<1.0%)**, **Ficoll® (15%)**, **Proprietary Component (<6%)**, and **Water**.

**Application:**
- Used as an RNA polyuridine inhibit, and in separation of high molecular weight DNA.

**Recommended Storage:**
- RT

---

**Electrophoresis of Nucleic Acids**

**Applications:**
- Fluorometric detection of double stranded nucleic acids. Also acts as an RNA polymerase inhibitor, and in separation of high molecular weight DNA.

**Recommended Storage:**
- RT

---

**Components:**
- **Formaldehyde** (37-50% (Methyl Alcohol) and 48% Water).
- **Sodium Lauryl Sulfate**

**Application:**
- To pass test

**Recommended Storage:**
- RT

---

**Electrophoresis of RNA**

**Applications:**
- Used as a tracking dye in electrophoresis.

**Recommended Storage:**
- RT

---

**Electrophoresis of DNA**

**Applications:**
- As a tracking dye in DNA and RNA electrophoresis.

**Recommended Storage:**
- RT

---

**Components:**
- **Molecular Biology-grade Formaldehyde** is used for denaturing DNA and RNA.

**Application:**
- To pass test

**Recommended Storage:**
- RT

---

**Electrophoresis of Tissue**

**Applications:**
- Used as a tracking dye in DNA and RNA electrophoresis.

**Recommended Storage:**
- RT

---

**Electrophoresis of Protein**

**Applications:**
- Used as a tracking dye in DNA and RNA electrophoresis.

**Recommended Storage:**
- RT

---

**Electrophoresis of DNA and RNA**

**Applications:**
- Used as a tracking dye in DNA and RNA electrophoresis.

**Recommended Storage:**
- RT
### Methanol Peroxide-free

<table>
<thead>
<tr>
<th>Mfr. No</th>
<th>Packaging</th>
<th>Sequence</th>
<th>CAS</th>
<th>Molar Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>78-09-5</td>
<td>0.9995g/L</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>67-56-1</td>
<td>0.9995g/L</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>107-21-1</td>
<td>0.9995g/L</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>200-659-6</td>
<td>0.9995g/L</td>
</tr>
</tbody>
</table>

### TBE Buffer Mix

#### Dry Powder Mix of Tris/Boric Acid/EDTA

- **CAS**: 10109-35-2
- **Mfr. No**: BP105-03

#### Electrolytes

<table>
<thead>
<tr>
<th>Mfr. No</th>
<th>CAS</th>
<th>Conductivity of a 1X Solution (at 25°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>903-46-4</td>
<td>1900±200µhos/cm</td>
</tr>
<tr>
<td></td>
<td>903-46-4</td>
<td>Not detected</td>
</tr>
</tbody>
</table>

#### Recommended Storage: RT

**Applications**: Used in staining and destaining protein electrophoresis gels, in HPLC, and in other biological applications.

**Recommended Handling**: RT

### Tris-Acetate-EDTA

#### 25X Powder

- **CAS**: 113852-26-3

#### Electrolytes

<table>
<thead>
<tr>
<th>Mfr. No</th>
<th>CAS</th>
<th>pH (1X solution) (at 25°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>903-46-4</td>
<td>7.4 ± 0.1</td>
</tr>
<tr>
<td></td>
<td>903-46-4</td>
<td>Not detected</td>
</tr>
</tbody>
</table>

#### Recommended Storage: RT

**Applications**: Tris-Acetate-EDTA (TAE) is commonly used as a buffer for nucleic acid electrophoresis. Each pack contains preweighed powder to make 1 of a 1X solution. 1M Tris-Acetate and 0.025% EDTA.

### Tris-Borate-EDTA

#### 10X Powder

- **CAS**: 10109-35-2

#### Electrolytes

<table>
<thead>
<tr>
<th>Mfr. No</th>
<th>CAS</th>
<th>Conductivity of a 1X Solution (at 25°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>903-46-4</td>
<td>1900±200µhos/cm</td>
</tr>
<tr>
<td></td>
<td>903-46-4</td>
<td>Not detected</td>
</tr>
</tbody>
</table>

#### Recommended Storage: RT

**Applications**: Tris-Borate-EDTA (TBE) is commonly used as a buffer for nucleic acid electrophoresis. Each pack contains preweighed powder to make 1 of a 1X solution. 0.89M Tris Base, 0.089M Boric Acid, and 0.002M EDTA.

### Tris Buffer 2M Solution

#### Electrolytes

<table>
<thead>
<tr>
<th>Mfr. No</th>
<th>CAS</th>
<th>Molarity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>903-46-4</td>
<td>0.89M</td>
</tr>
</tbody>
</table>

#### Recommended Storage: RT

**Applications**: Tris 2M, provides a convenient stock solution for these Tris buffers.

### Tris Buffer 0.3M Solution

#### Electrolytes

<table>
<thead>
<tr>
<th>Mfr. No</th>
<th>CAS</th>
<th>Molarity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>903-46-4</td>
<td>0.089M</td>
</tr>
</tbody>
</table>

#### Recommended Storage: RT

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

### Tris Buffer 1M Solution, High Purity, Low Metal

#### Electrolytes

<table>
<thead>
<tr>
<th>Mfr. No</th>
<th>CAS</th>
<th>Molarity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>903-46-4</td>
<td>0.089M</td>
</tr>
</tbody>
</table>

#### Recommended Storage: RT

**Applications**: Tris is a buffer component in molecular biology, tissue culture, and electrophoresis procedures. Tris, 1M, provides a convenient stock solution for these applications.

### Tris Buffer 0.1M Solution

#### Electrolytes

<table>
<thead>
<tr>
<th>Mfr. No</th>
<th>CAS</th>
<th>Molarity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>903-46-4</td>
<td>0.0089M</td>
</tr>
</tbody>
</table>

#### Recommended Storage: RT

**Applications**: Tris is a buffer component in molecular biology, tissue culture, and electrophoresis procedures. Tris, 0.1M, provides a convenient stock solution for these applications.

### Tris Hydrochloride Solution pH 7.5

#### Electrolytes

<table>
<thead>
<tr>
<th>Mfr. No</th>
<th>CAS</th>
<th>Molarity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>903-46-4</td>
<td>0.89M</td>
</tr>
</tbody>
</table>

#### Recommended Storage: RT

**Applications**: Tris is a buffer component in molecular biology, tissue culture, and electrophoresis procedures. Tris Hydrochloride, 0.89M, provides a convenient stock solution for these applications.

### Tris Hydrochloride Solution pH 7.0

#### Electrolytes

<table>
<thead>
<tr>
<th>Mfr. No</th>
<th>CAS</th>
<th>Molarity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>903-46-4</td>
<td>0.3M</td>
</tr>
</tbody>
</table>

#### Recommended Storage: RT

**Applications**: Tris is a buffer component in molecular biology, tissue culture, and electrophoresis procedures. Tris Hydrochloride, 0.3M, provides a convenient stock solution for these applications.
### Tris Hydrochloride Solution pH 8.0

<table>
<thead>
<tr>
<th>Mfr. No.</th>
<th>100 µl Polyethylene</th>
<th>100 µl PolyWater</th>
<th>500 µl PolyWater</th>
<th>1 ml PolyWater</th>
<th>1 ml PolyPolyWater</th>
<th>5 ml PolyPolyPolyWater</th>
<th>50 ml PolyPolyPolyPolyPolyWater</th>
</tr>
</thead>
<tbody>
<tr>
<td>BP1398-1</td>
<td>Polyethylene</td>
<td>PolyWater</td>
<td>2X5 Solution</td>
<td>5X5 Solution</td>
<td>50X Solution</td>
<td>100X Solution</td>
<td>1000X Solution</td>
</tr>
</tbody>
</table>

### Tris-Acetate-EDTA

<table>
<thead>
<tr>
<th>Mfr. No.</th>
<th>1X Solution</th>
<th>1X Solution</th>
<th>5X Solution</th>
<th>5X Solution</th>
<th>50X Solution</th>
<th>100X Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>BP1383-1</td>
<td>Polyethylene</td>
<td>Polyethylene</td>
<td>10X Solution</td>
<td>10X Solution</td>
<td>50X Solution</td>
<td>100X Solution</td>
</tr>
</tbody>
</table>

### Conductivity of 1X Solution (at 25°C)

| Conductivity | 8.0±0.1 µhos/cm | 8.3±0.1 µhos/cm |

### Recommended Storage

- Filtered through a 0.2-micron filter.
- Not designed for quantifying DNA content in a sample.
- Not on TSCA inventory:
  - Xylene Cyanole FF:
    - Blush-green Powder
  - 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 byautoradiography (after radiolabeling).
  - Recommended Getl: 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

- 25-100 bp range
- 10 bp increments
- Use for size determination
- Provided in sufficient quantity to load 100 lanes

APPLICATons: QC Size Verification

INCLUSIONs: 1 ml of premixed ladder (0.5 pg/10 µl) in loading dye

Storage Conditions: Stable at room temperature for two years.

Quantity Package MFR No.
500 µl Tube 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

- 20-1000 bp range
- 100 bp increments
- Use for size determination
- Provided in sufficient quantity to load 100 lanes

APPLICATons: QC Size Verification

INCLUSIONs: 1 ml of premixed ladder (0.5 pg/10 µl) in loading dye

Storage Conditions: Stable at room temperature for two years.

Quantity Package MFR No.
500 µl Tube 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

- 100-2000 bp range
- 100 bp increments
- Use for size determination
- Provided in sufficient quantity to load 100 lanes

APPLICATons: QC Size Verification

INCLUSIONs: 1 ml of premixed ladder (0.5 pg/10 µl) in loading dye

Storage Conditions: Stable at room temperature for two years.

Quantity Package MFR No.
500 µl Tube 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

- 100-2000 bp range
- 100 bp increments
- Use for size determination
- Provided in sufficient quantity to load 100 lanes

APPLICATons: QC Size Verification

INCLUSIONs: 1 ml of premixed ladder (0.5 pg/10 µl) in loading dye

Storage Conditions: Stable at room temperature for two years.

Quantity Package MFR No.
500 µl Tube BP2574-100

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
- 100 bp increments
- Use for size determination
- Provided in sufficient quantity to load 100 lanes

APPLICATons: QC Size Verification

INCLUSIONs: 1 ml of premixed ladder (0.5 pg/10 µl) in loading dye

Storage Conditions: Stable at room temperature for two years.

Quantity Package MFR No.
500 µl Tube BP2575-100

Fisher BioReagents® exACTGene®
Cloning DNA Ladder

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

- 100-2000 bp range
- 100 bp increments
- Use for size determination
- Provided in sufficient quantity to load 100 lanes

APPLICATons: QC Size Verification

INCLUSIONs: 1 ml of premixed ladder (0.5 pg/10 µl) in loading dye

Storage Conditions: Stable at room temperature for two years.

Quantity Package MFR No.
500 µl Tube BP2576-100

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

- 100-2000 bp range
- 100 bp increments
- Use for size determination
- Provided in sufficient quantity to load 100 lanes

APPLICATons: QC Size Verification

INCLUSIONs: 1 ml of premixed ladder (0.5 pg/10 µl) in loading dye

Storage Conditions: Stable at room temperature for two years.

Quantity Package MFR No.
500 µl Tube BP2577-100
Molecular Biology | Electrophoresis of Nucleic Acids

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

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

- 300-1,000 bp range
- Number of Bands: 13
- Higher intensity reference band at 600 bp
- Ideal for size assessment and quantitative determination of DNA mass
- Contains loading dye to reduce pipetting steps and save time
- Provided in sufficient quantity to load 100 lanes

**APPLICATIONS:** General Purpose, Large-Diameter DNA

**INCLUSIONS:** 1 ml of premixed ladder (0.5 mg/μl) in loading dye (10 mM EDTA, 10% glycerol, 0.01% bromophenol blue, 0.1% SDS).

**STORAGE CONDITIONS:** Stable at room temperature for two years.

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**Fisher BioReagents® exACTGene® 2kb Max DNA Ladder**

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

- 300-2,000 bp range
- Number of Bands: 15
- Higher intensity reference band at 1,000 bp
- Ideal for wide range size assessment and quantitative determination of DNA mass
- Contains loading dye to reduce pipetting steps and save time
- Provided in sufficient quantity to load 100 lanes

**APPLICATIONS:** General Purpose, Extra Large Size DNA

**INCLUSIONS:** 1 ml of premixed ladder (0.5 mg/μl) in loading dye (10 mM EDTA, 10% glycerol, 0.01% bromophenol blue, 0.1% SDS).

**STORAGE CONDITIONS:** Stable at room temperature for two years.

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

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

- 100-1,000 bp range
- Number of Bands: 13
- Higher intensity reference band at 500, 1000 and 1500 bp
- Ideal for wide range size assessment and quantitative determination of DNA mass
- Contains loading dye to reduce pipetting steps and save time
- Provided in sufficient quantity to load 100 lanes

**APPLICATIONS:** General Purpose, Wide DNA Size Range

**INCLUSIONS:** 1 ml of premixed ladder (0.5 mg/μl) in loading dye (10 mM EDTA, 10% glycerol, 0.01% bromophenol blue, 0.1% SDS).

**STORAGE CONDITIONS:** Stable at room temperature for two years.

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**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 1500 bp

**APPLICATIONS:** General Use, Wide DNA Size Range

**INCLUSIONS:** 1 ml of premixed ladder (0.5 mg/μl) in loading dye (10 mM EDTA, 10% glycerol, 0.01% bromophenol blue, 0.1% SDS).

**STORAGE CONDITIONS:** Stable at room temperature for two years.

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<table>
<thead>
<tr>
<th>Marker (Base Pair Range)</th>
<th>No. of Bands</th>
<th>Application</th>
<th>Size</th>
<th>MFR No.</th>
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<tr>
<td>100-1,000 kb Marker DNA Ladder</td>
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<td>PCR size</td>
<td>1000-bp</td>
<td>BP1901-100</td>
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<tr>
<td>1 kb Full Scale DNA Ladder</td>
<td>16</td>
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<td>1000-bp</td>
<td>BP3562-100</td>
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<tr>
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<td>Purification</td>
<td>1000-bp</td>
<td>BP3562-101</td>
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