pop bio

Vü
Reagent

Your Trusted Solution
for Imaging

www.pop-bio.com

Ladders & Markers

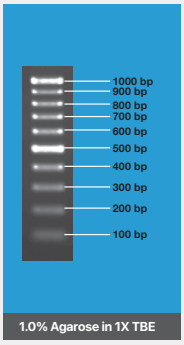
Quantify with Confidence,

Strive for Accuracy

PopLadder

Your trusted molecular weight standards for accurate electrophoresis in agarose and polyacrylamide gels. Perfect for precise sizing of PCR products and double-stranded DNA fragments. All PopLadders are premixed with loading dye and ready-to-use.

PopLadder 100bp DNA Ladder

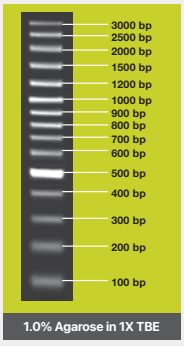


Packaging size

- 60-PM2101-50
  50 µg (ready-to-use)
- 60-PM2101-550
  5x50 µg (ready-to-use)

Store at -20°C

PopLadder 100bp Plus DNA Ladder

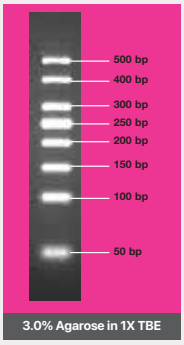


Packaging size

- 60-PM2201-50
  50 µg (ready-to-use)
- 60-PM2201-550
  5x50 µg (ready-to-use)

Store at -20°C

PopLadder 50bp DNA Ladder

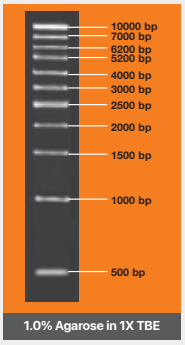


Packaging size

- 60-PM2001-50
  50 µg (ready-to-use)
- 60-PM2001-550
  5x50 µg (ready-to-use)

Store at -20°C

PopLadder 1kb DNA Ladder



Packaging size

- 60-PM2301-50
  50 µg (ready-to-use)
- 60-PM2301-550
  5x50 µg (ready-to-use)

Store at -20°C

Also available

PopLadder 1kb-Ex DNA Ladder

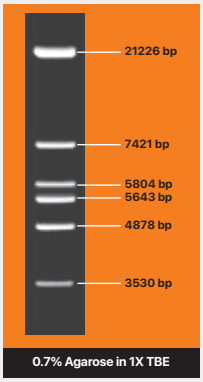
- 60-PM2311-50 : 50 µg (ready-to-use)
- 60-PM2311-550 : 5x50 µg (ready-to-use)

PopLadder Mix 100bp-10kb

- 60-PM2401-50 : 50 µg (ready-to-use)
- 60-PM2401-550 : 5x50 µg (ready-to-use)

PopMarker

PopMarker Lambda /EcoR I Marker

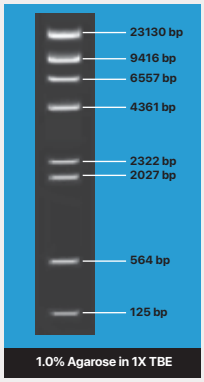


Packaging size:

- 60-PM1001-50
  50 µg (ready-to-use)

Store at -20°C

PopMarker Lambda /Hind III Marker

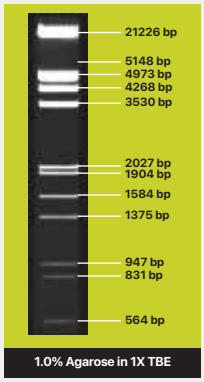


Packaging size:

- 60-PM1002-50
  50 µg (ready-to-use)

Store at -20°C

PopMarker Lambda/ EcoR I+Hind III Marker



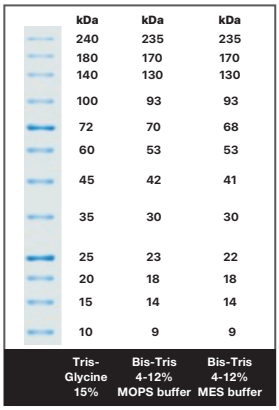
Packaging size:

- 60-PM1003-50
  50 µg (ready-to-use)

Store at -20°C

Protein Ladder

PopProtein Ladder Prestained Whole Blue Range 10-240kDa

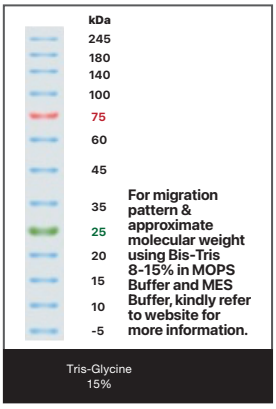


Packaging size

- 60-PM3001-2250
  2 x 250 µl (ready-to-use)

Store at -20°C

PopProtein Ladder Prestained Tricolor Range 5-245kDa



Packaging size

- 60-PM3111-2250
  2 x 250 µl (ready-to-use)

Store at -20°C

Features

- **Broad Range**
- **Convenient**
  Supplied in loading buffer for direct loading, ready-to-use
- **Easy Identification**
  Reference bands coupled with coloured dyes
- **Applications**
  SDS-PAGE and Western Blot

Biochemicals

Where Innovation Meets Molecules

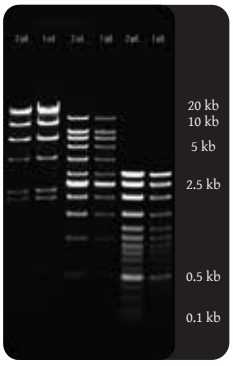
Navigating Biochemical Frontiers

Pop Bio stands at the forefront of biochemistry innovation, offering a dynamic range of cutting-edge solutions to researchers and laboratories worldwide. Our commitment lies in navigating the biochemical frontiers where science meets progress. From ready-made buffers to advanced biochemical tools, we empower researchers to explore, discover, and unlock new dimensions in their scientific endeavours.

PopChemical Agarose

Properties

- **Gelling temp :** 36° ± 1.5°C
- **Melting temp :** ≥ 90°C
- **Moisture content :** 10%
- **Sulfate :** 0.15%
- **EEO, (-mr) :** 0.09 – 0.13
- **Gel strength :** 1200g/cm^2
- **RNase/DNase Activity :** None detected



L1.0% PopChemical Agarose, 1xTAE Buffer

Lane 1,2 : PopMarker Lambda / Hind III Marker (#60-PM1002-50)

Lane 3,4 : PopLadder 1kb DNA Ladder (#60-PM2301-50)

Lane 5,6 : PopLadder 100bp plus DNA Ladder (#60-PM2201-50)

Description

PopChemical Agarose stands as the optimal choice for the routine analysis of nucleic acids through gel electrophoresis and blotting. With an exceptional ability to sharply resolve DNA, each gel consistently delivers reliable results from lot to lot. This high-quality molecular biology-grade agarose is distinguished by its absence of detectable DNase or RNase activity, forming robust gels with minimal background upon ethidium bromide, SYBR® Green, or GelStar® staining. Notably, its low EEO ensures DNA exhibits a remarkable electrophoretic mobility, making PopChemical Agarose an invaluable tool for precise and efficient molecular studies.

Ordering Information

Biochemicals for Genomic Research

Product Code	Product Description
50-PC1131-100	PopChemical Agarose, 100g
50-PC1131-1000	PopChemical Agarose, 1kg
50-PC1131-500	PopChemical Agarose, 500g
50-PC1141-1000	PopChemical Ethylenediaminetetraacetic Acid (EDTA), Disodium Salt, Dihydrate, 1kg
50-PC1141-500	PopChemical Ethylenediaminetetraacetic Acid (EDTA), Disodium Salt, Dihydrate, 500g

Biochemicals for Proteomic Research

Product Code	Product Description
50-PC1011-500	PopChemical Acrylamide, 500g
50-PC1021-200	PopChemical Acryl/Bis 37.5:1 Premixed Powder, 200g
50-PC1021-40	PopChemical Acryl/Bis 37.5:1 Premixed Powder, 40g
50-PC1031-25	PopChemical Ammonium Persulfate, 25g
50-PC1041-50	PopChemical Bis-Acrylamide, 50g
50-PC1051-1000	PopChemical Glycine, 1kg
50-PC1061-100	PopChemical Sodium Dodecyl Sulfate (SDS), 100g
50-PC1061-250	PopChemical Sodium Dodecyl Sulfate (SDS), 250g
50-PC1071-25	PopChecmial N,N,N',N'-Tetramethylethylene-Diamine (TEMED), 25ml
50-PC1111-1000	PopChemical Boric Acid, 1kg
50-PC1111-500	PopChemical Boric Acid, 500g
50-PC1121-1000	PopChemical Tris, 1kg
50-PC1121-500	PopChemical Tris, 500g

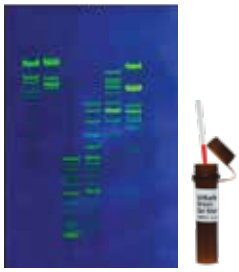
Dyes

SAFER than EtBr!

More Sensitive than EtBr or SYBR® Green!

Nucleic Acid Dye

PopDye 10000X Red
Gel Safe Stain



PopDye 10000X Green
Gel Safe Stain

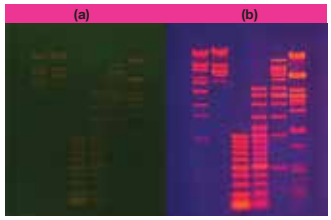
PopDye 10000X Red Gel Safe Stain and PopDye 10000X Green Gel Safe Stain are stable, sensitive and environmentally safe fluorescent nucleic acid dye for staining double-stranded DNA (dsDNA), single-stranded DNA (ssDNA) or RNA in agarose gels or polyacrylamide gels.

Both green/red gel stain and EtBr have the same spectra, so the **PopDye 10000X Red/ Green Gel Safe Stain** able to replace Ethidium Bromide (EtBr) without changing existing imaging system. **PopDye 10000X Red/ Green Gel Safe Stain** is designed to replace the highly toxic ethidium bromide (EtBr). The dye is confirmed by Ames test results that it is impenetrable to latex gloves and cell membranes. By using the suggested working concentrations in gel staining, the dye is proven unable to cross cell membranes; and it is noncytotoxic and nonmutagenic at working concentrations.

Features

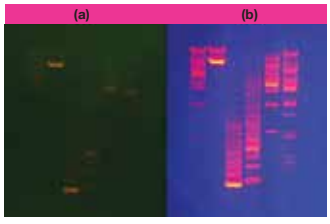
- **Safer** : Noncytotoxic & nonmutagenic shown by Ames tests.
- **High sensitivity** : More sensitive compared to EtBr or SYBR® Green Nucleic Acid Stain.
- **Extremely stable** : Stable at room temperature for long-term storage. Stable to be microwaved or heated. The working solution is stable at room temperature when kept in dark.
- **Wide application** : Suitable to stain dsDNA, ssDNA and RNA. Suitable to use in agarose gel or polyacrylamide gel. Compatible with down-stream applications, such as gel recovery and cloning.
- **Easy staining protocols** : Easy precast gel staining& post-staining procedures.
- **Compatible with most imaging system** : Gel can be viewed with standard UV transilluminator, visible light gel reader, or other gel imaging system.

PopDye Red Gel Safe Stain



Post-staining for Agarose Gel

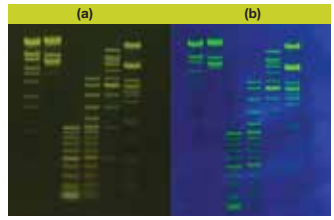
Figure 1: Various ladders and markers run at 1.5% TBE agarose gel. The agarose gel is post-stained with PopDye 10000X Red Gel Safe Stain. The gel is visualized using transilluminator with (a) blue light; (b) UV light.



Precast for Agarose Gel

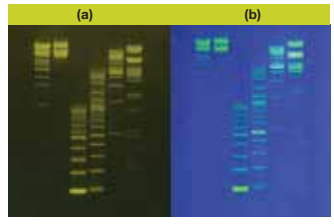
Figure 2: The agarose gel is pre-stained with PopDye 10000X Red Gel Safe Stain. Various ladders and markers run at 1.5% TBE pre-stained agarose gel. The gel is visualized using transilluminator with (a) blue light; (b) UV light.

PopDye Green Gel Safe Stain



Post-staining for Agarose Gel

Figure 1: Various ladders and markers run at 1.5% TBE agarose gel. The agarose gel is post-stained with PopDye 10000X Green Gel Safe Stain. The gel is visualized using transilluminator with (a) blue light; (b) UV light.

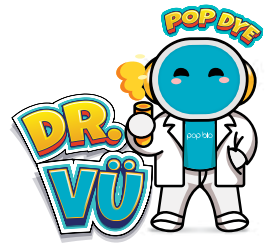


Precast for Agarose Gel

Figure 2: The agarose gel is pre-stained with PopDye 10000X Green Gel Safe Stain. Various ladders and markers run at 1.5% TBE pre-stained agarose gel. The gel is visualized using transilluminator with (a) blue light; (b) UV light.

Tracking Dye

PopDye 6X Gel BluePurple Loading Tracking Dye (with xylene cyanol gel loading dye) contains two dyes; bromophenol blue and xylene cyanol FF to track DNA migration during electrophoresis. Bromophenol blue migrates with the 300bp fragment while xylene cyanol FF migrates with the 4000bp fragment.



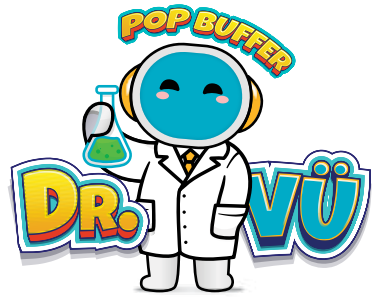
Ordering Information

Product Code	Product Description
30-PD2101-500	PopDye 10000X Green Gel Safe Stain in water, 500µl
30-PD2201-500	PopDye 10000X Red Gel Safe Stain in water, 500µl
30-PD1001-5000	PopDye 6X Gel BluePurple Loading Tracking Dye, 5 x 1ml

Ready-to-use Buffers

Precision in a Bottle

Simplify Your Experiment with Ready-to-use Buffers



- Ready-to-use formulation, hassle- free
- DNase-free, RNase- free & Protease- free
- Sterile & freshly prepared
- Premium quality & precision in every pH
- Positive results assured, elevate your experiments with confidence

1

Tris-Acetate-EDTA (TAE) Buffer

- Nucleic acid electrophoresis running buffer & gel preparation buffer
- Used for agarose and polyacrylamide gels
- Buffer of choice when running long nucleic acid fragments
- Northern blotting buffer

2

Tris-Borate-EDTA (TBE) Buffer

- Nucleic acid electrophoresis running buffer & gel preparation buffer
- Buffer of choice when running short nucleic acid fragments

3

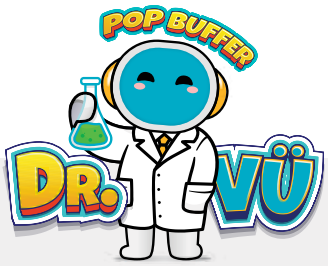
TE Buffer

- Solubilize DNA and RNA & protecting from degradation
- Protein and nucleic acid extraction & purification
- Break protein-links in immuno-histochemistry

4

Tris Buffer

- Used in protein electrophoresis & western blotting
- Used in washing procedures in cell cultures
- Used as suspension buffer for biological samples
- As a raw material to prepare for other buffers – TAE, TBE, TE, etc



5

EDTA Buffer

- A ligand and chelating agent
- Used in immunostaining of ethanol-fixed smears
- As a raw material to prepare for other buffers – TAE, TBE, TE, etc

Ordering Information

Product Code	Product Description
40-PB1001-500	PopBuffer Nuclease-free Water, 500ml
40-PB2001-1000	PopBuffer 10X Tris-Acetate-EDTA (TAE) Buffer (1X TAE Buffer, pH8.0), 1L
40-PB2002-1000	PopBuffer 50X Tris-Acetate-EDTA (TAE) Buffer (1X TAE Buffer, pH8.0), 1L
40-PB2003-1000	PopBuffer 10X Tris-Borate-EDTA (TBE) Buffer (1X TBE Buffer, pH8.3), 1L
40-PB3001-500	PopBuffer 0.5M EDTA Buffer, pH8.0, 500ml
40-PB3002-500	PopBuffer 10% Sodium Dodecyl Sulfate (SDS) Buffer, 500ml
40-PB3011-1000	PopBuffer 1M Tris Buffer, pH7.0, 1L
40-PB3012-1000	PopBuffer 1M Tris Buffer, pH7.5, 1L
40-PB3013-1000	PopBuffer 1M Tris Buffer, pH8.0, 1L
40-PB3021-500	PopBuffer 1X Tris-EDTA (TE) Buffer, pH7.5, 500ml
40-PB3022-500	PopBuffer 1X Tris-EDTA (TE) Buffer, pH8.0, 500ml
40-PB3023-100	PopBuffer 10X Tris-EDTA (TE) Buffer, (1X TE Buffer, pH7.5), 100ml
40-PB3024-100	PopBuffer 10X Tris-EDTA (TE) Buffer, (1X TE Buffer, pH8.0), 100ml
40-PB3101-1000	PopBuffer 1X Tris Buffered Saline (TBS) Buffer, pH7.4, 1L
40-PB3102-1000	PopBuffer 10X Tris Buffered Saline (TBS) Buffer, (1X TBS Buffer pH7.4), 1L
40-PB3111-1000	PopBuffer 1X Tris-Glycine (TG) Buffer, 1L
40-PB3112-1000	PopBuffer 10X Tris-Glycine (TG) Buffer, 1L
40-PB3121-1000	PopBuffer 1X Tris-Glycine-Sodium Dodecyl Sulfate (TG-SDS) Buffer, 1L
40-PB3122-1000	PopBuffer 10X Tris-Glycine-Sodium Dodecyl Sulfate (TG-SDS) Buffer, 1L
40-PB3131-1000	PopBuffer 1X Tris-Buffered Saline-Tween 20 (TBST) Buffer, 1L
40-PB3132-1000	PopBuffer 10X Tris-Buffered Saline-Tween 20 (TBST) Buffer, 1L
40-PB4001-1000	PopBuffer Coomassie Blue Lightning Stain (R-250, ready-to-use), 1L

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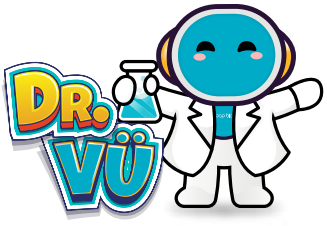

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PB/02/2024/01