

Catalog No.: M107-5

Product Name: 100bp DNA Ladder

Contents:

100bp DNA Ladder:	5X 1000 μ l
6X DNA loading Buffer:	3X 1000 μ l

Description: **100bp DNA Ladder** consists of 11 DNA fragments ranging in size from 100-1500 base pairs (bp). 6 μ l will yield at least 30ng DNA in any single band. The intensity of the 500bp band has been increased to serve as a reference for easy identification. . This ladder can also be used side by side with the 100bp-50 DNA Ladder (Cat. No. M109) for more accurate estimation of the size your DNA fragments.

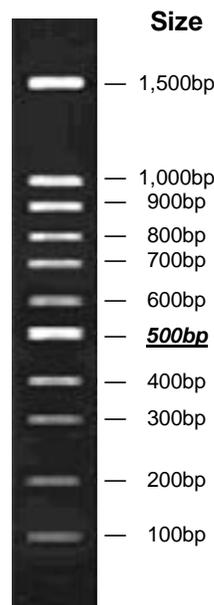
Storage: Store at -20°C.

Concentration: 500ng/6 μ l

Loading Buffer Composition:

10mM Tris-HCl
1mM EDTA (pH 8.0)
0.02% Bromophenol blue
0.02% Xylene cyanol
5% Glycerol

Usage: Add at least 6 μ l **100bp DNA Ladder** directly to wells designated for markers. You may need more than 6 μ l of ladder, depending on well size and level of intensity needed to visualize the bands.



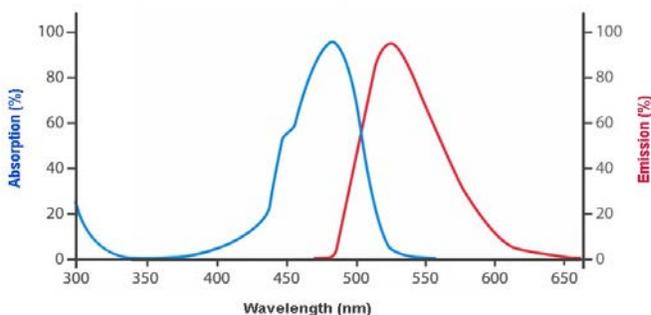
100bp DNA Ladder
500ng
1.5% agarose gel

Related products	Catalog No.
• 1Kb DNA Ladder II	M108
• Agarose (Standard-Agarose)	A113
• DNA SafeStain	C138
• Ultra Bright LED Transilluminator	SLB-01
• UltraSlim® LED Illuminator	LB-16

This product is for research use only.

Catalog No.: C138-5**Product Name:** **DNA SafeStain****Size:** 5X 1000 μ l**Concentration:** 10,000X

Description: **DNA SafeStain** is safe nucleic acid staining dye for the visualization of double-stranded DNA, single-stranded DNA, and RNA in agarose gels. The dye is developed to replace Ethidium Bromide (EtBr), a potent mutagen, commonly used in research labs for gel electrophoresis. **DNA SafeStain** is non-carcinogenic by the Ames test. **DNA SafeStain** emits green fluorescence when bound to DNA. It has two excitation wavelength peaks when bound to nucleic acid, at 290nm and 490nm. The emission wavelength for the **DNA SafeStain** is 530nm.



Storage: Store at 4°C or room temperature; avoid direct light.

User Instruction: **DNA SafeStain** can be used in the exact same way as EtBr in agarose gel electrophoresis. For example, add 10 μ l to 100ml agarose gel.

Special Notes:

1. For convenience, you can dilute the **DNA SafeStain** 10,000 times with the gel running buffer, and use this dye-containing running buffer to make and run the agarose gel.
2. As is the case with EtBr; add more **DNA SafeStain**, if brighter DNA bands are desired.
3. Consult and follow your institution's specific regulations for chemical disposal.

To view the results, any conventional DNA gel viewing light box or gel documentation system should work well with the **DNA SafeStain**; although, using a LED blue light instead of a UV light source is preferred due to the harmful nature of UV light.

This Product is For Research Use Only

Related Products:

100bp DNA Ladder
1Kb DNA Ladder II
100bp Plus DNA Ladder
Pre-SafeStained 100bp DNA Ladder
Pre-SafeStained 1Kb DNA Ladder

Cat. No.

M107
M108
M111
M3002
M1008