

6X DNA Loading Buffer

Product Name

6X DNA Loading
Buffer

Product Code

ML015-6X1ML

Kit Packing

6 X1 ml

Introduction: 6X DNA Loading Buffer is a pre-mixed solution used to prepare DNA markers and samples for loading on agarose or polyacrylamide gels. It is a pre-mixed loading buffer containing two different dyes namely bromophenol blue and xylene cyanol FF for visual tracking of DNA migration during agarose gel electrophoresis. The presence of glycerol in the loading buffer ensures that the DNA sample is loaded properly in the well.

Description: The 6X DNA Loading Buffer is intended for analysis of DNA samples including genomic and plasmid DNA, PCR product, restriction fragments etc. on agarose or polyacrylamide gels. One part of the 6X gel Loading Buffer is mixed with 5 parts of DNA sample (1:5 ratio) to allow tracing of the sample and facilitates loading of the samples into the wells of horizontal and vertical agarose and polyacrylamide gels. Also, the two dyes migrate in the same direction as the nucleic acids, hence serving as indicators of the electrophoretic progress of the nucleic acid or protein samples. Bromophenol blue is a faster moving dye and it migrates at approximately 300 bp on a standard 1% TBE agarose gel while xylene cyanol migrates at approximately 4kb equivalence.

Application: 6X DNA Loading Buffer is mixed with DNA samples for use in agarose gel electrophoresis. It is used as a two-color tracking dye for DNA migration during electrophoresis. It does not mask DNA band during gel exposure to UV light.

Composition: The 6X DNA Loading Buffer contains Bromophenol Blue, Xylene Cyanol FF and glycerol.

Properties:

Appearance : Blue Colored solution
Clarity : Clear and free of particles
DNase & RNase : None detected
Suitability test : This solution has been tested and is suitable for use in gel electrophoresis

Storage conditions: The 6X DNA Loading Buffer should be stored at room temperature or 2-8°C.

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Registered Office :

23, Vadhani Industrial Estate, LBS Marg,
Mumbai - 400 086, India.
Tel. : (022) 4017 9797 / 2500 1607
Fax : (022) 2500 2286

Commercial Office

A-516, Swastik Disha Business Park,
Via Vadhani Indl. Est., LBS Marg,
Mumbai - 400 086, India

Tel: 00-91-22-6147 1919
Fax: 6147 1920, 2500 5764
Email : info@himedialabs.com
Web : www.himedialabs.com