

5X TD Solution

Product Name

5X TD Solution

Product Code

ML019-6X1ML

Kit Packing

6X1ml

Introduction: The 5X TD Solution is widely used for loading DNA samples into gel electrophoresis wells and tracking migration during electrophoresis. It is provided in a premixed, ready-to-use form. The product is mixed with DNA samples to facilitate the loading of the samples into the wells of horizontal and vertical agarose and polyacrylamide gels.

Description: The 5X TD Solution is composed of Bromophenol Blue, Xylene Cyanol FF, EDTA and Polysucrose. The EDTA in the loading buffer terminates the reactions containing enzymes that require Mg²⁺ and Ca²⁺. Polysucrose increases the density of the sample so that it can settle in the well. Addition of one volume of 5X TD Solution to 4 volumes of DNA sample gives color to the sample as well as increases the sample density, which facilitates the loading onto the well. Furthermore, the solution contains two dyes which migrate in the same direction as the nucleic acids, hence serves as an indicator of the electrophoretic progress.

Application: The 5X TD Solution is used for analysis of DNA samples including genomic and plasmid DNA, PCR products, restriction fragments etc. on agarose or polyacrylamide gels. In a 0.5–1.4% agarose gel in 0.5X TBE, xylene cyanol FF migrates at approximately 4kb, bromophenol blue at approximately 300bp.

Composition: The 5X TD Solution is composed of 20% Polysucrose 400, 0.05% Bromophenol Blue, 0.03% Xylene Cyanol FF.

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 loading various DNA samples.

Storage conditions: 5X TD solution has to be stored at room temperature 2 - 8 °C.

Technical Assistance

At HiMedia we pride ourselves on the quality and availability of our technical support. For any kind of technical assistance, mail at mb@himedialabs.com.

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