

6X Orange Gel Loading Buffer

Product Name

6X Orange Gel Loading
Buffer

Product Code

ML092-5X1ML

Kit Packing

5X1 ml

Introduction: The 6X Orange Gel Loading Buffer is a pre-mixed, ready-to-use loading buffer with two tracking dyes which is very conveniently used for analysis of DNA samples on agarose gels during electrophoresis.

Description: The 6X Orange Gel Loading Buffer should be mixed with DNA samples including genomic and plasmid DNA, PCR product, restriction fragments etc. to facilitate the loading of the samples into the wells of agarose gels. It contains two different dyes Xylene Cyanol FF and Orange G for two-color visual tracking of DNA migration during gel electrophoresis. This dye contains glycerol which ensures that the DNA in the sample becomes more viscous and forms a layer at the bottom of the well. Moreover, EDTA is included in this loading buffer which inhibits metal-dependent nucleases by binding divalent metal ions.

Addition of one volume of 6X Orange Gel Loading Buffer to 5 volumes of DNA sample gives color and density to the sample which facilitates the loading. The two dyes of the 6X Orange Gel Loading Buffer migrate in the same direction as the DNA samples providing an indicator of the electrophoretic progress. Xylene cyanol FF migrates at approximately 4 kb in a 1 % TBE agarose gel whereas Orange G migrates at 50 bp. Orange G does not appear in the gel photographs and as a result intensity of DNA bands are not masked during gel exposure to UV light.

Application: 6X Orange Gel Loading Buffer is intended to be mixed with DNA samples (including small DNAs) to facilitate the loading of the samples into the wells of horizontal agarose gels.

Composition: The 6X Orange Gel Loading Buffer contains Xylene Cyanol FF, Orange G and Glycerol in Tris-EDTA buffer.

Properties:

Appearance : Dark Green solution
Clarity : Clear and free of particles
DNase & RNase : None detected
Sterility : No bacterial or fungal growth is observed after 14 days of incubation as per USP specifications.

Storage conditions: The 6X Orange Gel Loading Buffer should be stored at -20°C.

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ML092-00



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