

5X Sucrose Gel Loading Dye

| <u>Product Name</u> | <u>Product Code</u> | <u>Kit Packing</u> |
|----------------------------|------------------------|--------------------|
| 5X Sucrose Gel Loading Dye | ML112-1ML ML112-5ML | 1 ml 5 ml |

Introduction:

The 5X Sucrose Gel Loading Dye 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 5X Sucrose Gel Loading Dye 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 Bromophenol blue for two-color visual tracking of DNA migration during gel electrophoresis. This dye contains sucrose which ensures that the DNA in the sample becomes more viscous and forms a layer at the bottom of the well.

Addition of one volume of 5X Sucrose Gel Loading Dye to 4 volumes of DNA sample gives color and density to the sample which facilitates the loading. The two dyes of the 5X Sucrose Gel Loading Dye migrate in the same direction as the DNA samples providing an indicator of the electrophoretic progress. 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:

5X Sucrose Gel Loading Dye 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 5X Sucrose Gel Loading Dye contains Xylene Cyanol FF, Bromophenol blue and Sucrose.

Properties:

| | | |
|------------------|---|--|
| Appearance | : | Dark Blue solution |
| Clarity | : | Clear and free of particles |
| DNase & RNase | : | None detected |
| Suitability Test | : | This product has been tested and is suitable for use |

Please refer disclaimer Overleaf.

Storage conditions:

The 5X Sucrose Gel Loading Dye should be stored at -20°C. Under recommended condition, the reagent is stable for 12 months.

Warning and Precautions

Not for Medicinal Use. Read the SDS carefully before beginning the protocol. Wear protective gloves/protective clothing/eye protection/face protection. Follow good clinical laboratory practices while handling clinical samples. Standard precautions should be followed as per established guidelines. Safety guidelines may be referred in safety data sheets of the product.

Performance and Evaluation

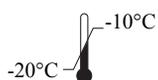
Performance of the solution is expected when the solution is stored at recommended temperature and within the expiry period.

Safety Information

The 5X Sucrose Gel Loading Dye is for laboratory use only, not for drug, household or other uses. Take appropriate laboratory safety measures and wear gloves and safety goggles when handling. Not compatible with disinfecting agents containing bleach. Please refer the Safety Data Sheet (SDS) for information regarding hazards and safe handling practices.

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.



Storage temperature



Do not use if package is damaged



HiMedia Laboratories Private Limited,
Reg. Off: Plot No. C-40, Road No. 21Y,
MIDC, Wagle Industrial Area, Thane,
(West) 400604, Maharashtra, INDIA.
www.himedialabs.com



12/2024

PIML112_0/1221

ML112-02

Disclaimer :

User must ensure suitability of the product(s) in their application prior to use. Products conform solely to the information contained in this and other related HiMedia™ publications. The information contained in this publication is based on our research and development work and is to the best of our knowledge true and accurate. HiMedia™ Laboratories Pvt Ltd reserves the right to make changes to specifications and information related to the products at any time. Products are not intended for human or animal or therapeutic use but for laboratory, diagnostic, research or further manufacturing use only, unless otherwise specified. Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.

HiMedia Laboratories Pvt. Ltd. Reg. office : Plot No. C-40, Road No. 21Y, MIDC, Wagle Industrial Area, Thane, (West) 400604, Maharashtra, INDIA.
Customer Care No.: 00-91-22-6116 9797 Tel: 00-91-22-6147 1919, 6903 4800 Email: techhelp@himedialabs.com Website: www.himedialabs.com