

ATR-MED®

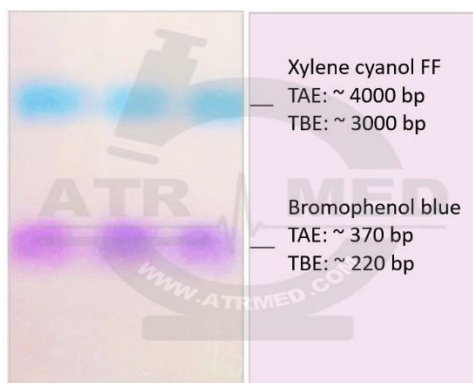
Product Information

Two-Trail™ DNA Loading Dye (6X)

Catalogue Number: 89687-1mL

Product Description

ATR-MED® Two-Trail™ DNA Loading Dye (6X) is a pre-mixed buffer for tracking DNA samples during electrophoresis on agarose or polyacrylamide gels. It contains two different dyes (Xylene cyanol FF and Bromophenol blue) for visual tracking of DNA migration. The Xylene cyanol FF and Bromophenol blue migrate at approximately 4,000 and 400 bp on a standard 1% TAE agarose gel, respectively. Also, the Xylene cyanol FF and Bromophenol blue migrate at approximately 3,000 and 200 bp on a standard 1% TBE agarose gel, respectively. The presence of glycerol ensures that the DNA in the sample forms a layer at the bottom of the well. The EDTA included in the solution chelates any divalent metal ions and inhibits metal-dependent nucleases.



Two-Trail™ DNA Loading Dye (6X). Approximate migration of tracking dyes on 1% agarose gel, ambient light

Highlights

- Two-color tracking of DNA migration during DNA electrophoresis
- Preparation of DNA ladders, markers, and samples for loading on agarose or polyacrylamide gels
- Dyes do not interfere with UV visualization of DNA fragments.

- EDTA binds divalent metal ions and inhibits metal-dependent nucleases.

Product Composition

0.03% Bromophenol blue, 0.03% Xylene cyanol FF, 10 mM Tris-HCl (pH 8.0), 60 mM EDTA, 60% Glycerol.

Applications

- Preparation and loading of DNA ladders, markers, and samples on agarose gels for DNA sizing and approximate quantification
- It is also suitable for use with agarose or non-denaturing polyacrylamide gel electrophoresis (PAGE) gels, which may be part of Northern and Southern blot hybridization procedures.

Product Procedure

1. Add 1 volume of 6X DNA loading dye to 5 volumes of DNA sample (1 µL loading dye for every 5 µL DNA sample).
2. Mix well, spin down and load.

Note: In 1 % agarose gels Bromophenol blue co-migrates with ~300 bp DNA, while Xylene cyanol FF co-migrates with ~4000 bp DNA.

Storage/Stability

Store at 4°C for periods up to 12 months. For longer periods store at -20°C.

Shipping

Two-Trail™ DNA loading dye (6X) is shipped on blue ice.

Precautions and Disclaimer

This product is for R&D use only, not for use in drug, diagnostic procedures, household, or other uses. When working with the product, always wear a suitable lab coat and disposable gloves, protective eyewear. For more information, please consult the appropriate material safety data sheets (MSDSs). These are available online as pdf-file or on request (info@atrmed.com). To the extent allowed by law, ATR-MED Inc. will not be liable for special, incidental, indirect, punitive, multiple, or consequential damages in connection with or arising from this document, including your use of it. By use of this product, you accept all the terms and conditions of ATR-MED products. All trademarks are the property ATR-MED unless otherwise specified.



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