A.B.T.™ Precast 1.5% High Resolution Agarose Gel

Cat#	Size
G01-15-10	10 pieces

Description: A.B.T.™ Precast 1.5% High Resolution Agarose Gel are designed for high resolution separation of nucleic acids, producing sharp DNA bands with low background fluorescence. Precast gels are individually foil sealed in plastic trays that help eliminate contamination from equipment and handling. Gels can be electrophoresed right in the plastic tray.

A.B.T.™ Precast 1.5% High Resolution Agarose Gel is contain the A.B.T.™ GEL-SAFER for easy visualization. A.B.T.™ GEL-SAFER is a ready for use fluorescence solution. The solution can be used comfortably instead of EthBr due to its impressionable, constant and health safety properties to observe for single or double DNA or RNA in a gel. A.B.T.™ GEL-SAFER has the same spectral properties as EthBr but is more sensitive than EthBr. A.B.T.™ GEL-SAFER is not permeable to both latex gloves and cell membranes. The solution is not cytotoxic and mutagenic at concentrations much higher than the working concentrations.

Kit Components:

Components	G01-15-10
A.B.T.™ Precast 1.5% High Resolution Agarose Gel	10 pieces

Recommended Application Protocols: Staining of gels after electrophoresis is strongly suggested as dye may interfere electrophoresis results. Phenol chloroform method and ethanol precipitation separates A.B.T.™ GEL-SAFER from DNA.

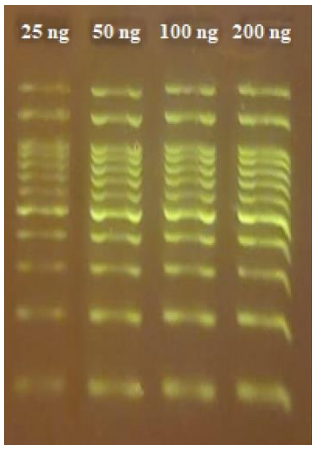
Storage Conditions: Store the gels flat at room temperature. Do not freeze. Limit exposure to light.

Procedure: Precast Agarose gels require less than 5 minutes to set up.

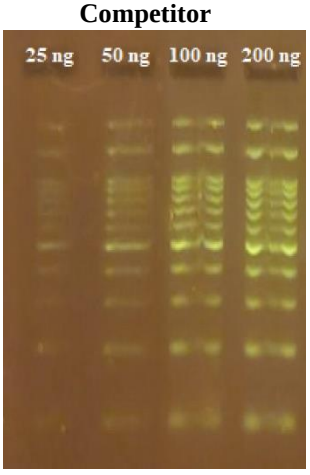
1. Peel the paper backing from the adhesive strips on the bottom of the tray.
2. Peel off the lid. Leave the gel in the tray.
3. Press the tray directly onto the chamber platform. Align the wells so the DNA samples will run straight.
4. Pour 1x TBE electrophoresis buffer in the chamber to a depth of 5 mm OVER the flange of the tray.
5. Load the DNA sample (≤15 µl volume).
6. Electrophorese the gels at ≤10 V/cm for 30 minutes. Lower voltages for longer times are acceptable.
7. Note: For DNA fragments ≥5 kb, use 1–5 V/cm and increase the run time.
8. Remove the gel from the tray to photograph/document and/or destain.

Quality Control: Comparison of A.B.T.™ GEL-SAFER and competitor brand in precast gel staining using 2% agarose gel in TBE buffer. DNA ladder loaded in 4 lanes in the amounts of 25 ng, 50 ng, 100 ng and 200 ng, respectively, from left to right.

A.B.T.™ GEL-SAFER



Competitor



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