3050 Spruce Street, St. Louis, MO 63103 USA
Tel: (800) 521-8956 (314) 771-5765 Fax: (800) 325-5052 (314) 771-5757
email: techservice@sial.com sigma-aldrich.com

Product Information

Precast Agarose Gels

Catalog Numbers **P5472, P5722, P5972, and P6097**
Store at Room Temperature

Synonym: DNA Agarose Gels

Product Description
These gels are suitable for separating nucleic acids, giving sharp DNA bands and low background fluorescence. DNase activity and DNA binding are not detected. The gels are cast using a 1× TBE (0.089 M Tris-borate, pH ~8.3, containing 2 mM EDTA) buffer system with ethidium bromide (0.5 µg/ml) included in the gel for easy visualization.

Gel Formats

Agarose Concentration	8 Wells	20 Wells	24 Wells
1.0%	P5472	P5722	P5972
4.0%	–	–	P6097

Gel Properties

Tray dimension:	6.8 cm × 10.2 cm
Gel dimension:	6.0 cm × 9.5 cm
Gel thickness:	5.5 mm
Sample format:	Gels are cast with 8, 20, or 24 wells that will each accommodate up to 15 µl sample volume.

Precautions and Disclaimer
This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability
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 1× 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.
   Note: For DNA fragments ≥5 kb, use 1–5 V/cm and increase the run time.
7. Remove the gel from the tray to photograph/ document and/or destain.

Results
Dye Migration with 1× TBE

Agarose Concentration	Bromophenol Blue	Xylene Cyanol
1.0% Agarose	400 bp	4,100 bp
4.0% Agarose	20 bp	250 bp

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