

TRANSGEN

# Integrated Protein Analysis System

**Integrated Protein Analysis System:  
Vertical Electrophoresis & Transfer  
with Precast Tris-Glycine Gels**

# ProteinEle® Precast Tris-Glycine Gel

## Features

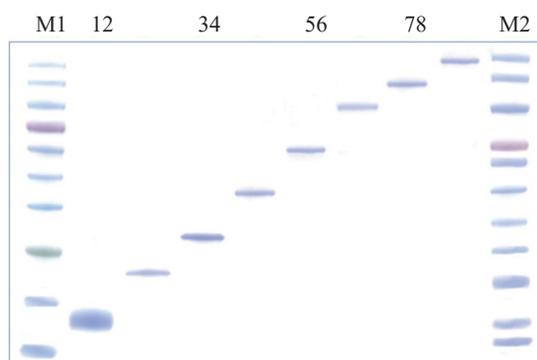
ProteinEle® offers a variety of precast Tris-Glycine gels, including fixed concentrations of 8%, 10%, and 12%, as well as a 4–20% gradient gel. You can choose from multiple well formats, including 10-well and 15-well options, with 10 pieces per box.

## Features

- High resolution: Prepared with a pH-neutral buffer, running in the classic Tris-Glycine electrophoresis buffer, featuring high resolution and good stability.
- Versatility: A variety of precast Tris-Glycine gels with different concentrations, suitable for the electrophoresis of both native and denatured proteins.
- High compatibility: Compatible with a variety of small - sized electrophoresis tanks.
- Simple operation: Offering convenience in use and simplicity in installation.

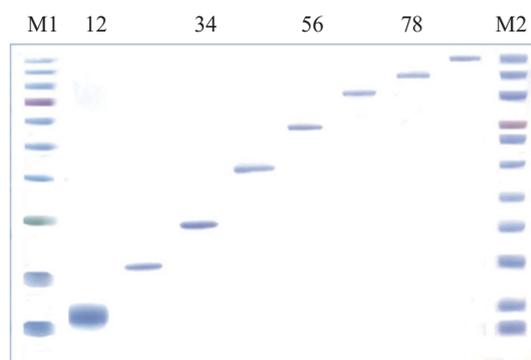
## Data exhibition

Gel image of DG101



ProteinEle® Precast Tris-Glycine Gel 10 wells ( 5 µl/well )

Gel image of DG102



ProteinEle® Precast Tris-Glycine Gel 10 wells ( 5 µl/well )

## A list of the compatible instruments for these gels

Bio-Rad Mini-PROTEAN (II/3 /Tetra System)

Hoefer Mighty Small (SE 250/ SE 260/ SE 280)

**TransGen (TSE-P200/P400)**

Other electrophoresis tanks with gel plates width of 10 cm.

Additionally, please note that the following instruments require custom baffle plates to be used:

Baffle plate 1 (TSE-SBP1) is compatible with Thermo Life Technology Novex Mini-Cell.

Baffle plate 2 (TSE-SBP2) is compatible with Thermo Life Mini Gel Tank.

## Specifications

### (1) Gradient Gels (DG101)

Product Code	Product Name	Concentration	Wells
DG101-420-10w-10	ProteinEle <sup>®</sup> Precast Tris-Glycine Gel (4-20%)	4-20%	10 wells
DG101-420-15w-10	ProteinEle <sup>®</sup> Precast Tris-Glycine Gel (4-20%)	4-20%	15 wells

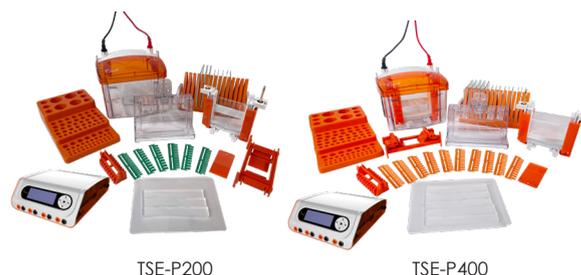
### (2) Fixed Percentage Gels (DG102)

Product Code	Product Name	Concentration	Wells
DG102-008-10w-10	ProteinEle <sup>®</sup> Precast Tris-Glycine Gel (8%)	8%	10 wells
DG102-008-15w-10	ProteinEle <sup>®</sup> Precast Tris-Glycine Gel (8%)	8%	15 wells
DG102-010-10w-10	ProteinEle <sup>®</sup> Precast Tris-Glycine Gel (10%)	10%	10 wells
DG102-010-15w-10	ProteinEle <sup>®</sup> Precast Tris-Glycine Gel (10%)	10%	15 wells
DG102-012-10w-10	ProteinEle <sup>®</sup> Precast Tris-Glycine Gel (12%)	12%	10 wells
DG102-012-15w-10	ProteinEle <sup>®</sup> Precast Tris-Glycine Gel (12%)	12%	15 wells

## TSE-P Mini Vertical Electrophoresis System

### Features

- 2/4 minigel electrophoresis can be completed in less than an hour.
- Sealing spacer is glued to the long glass plate to ensure that the glass plates are accurately aligned, preventing the gel leakage.
- The camming frame ensures precise alignment of the horizontal planes.
- Comb with teeth and built-in ridges isolates the gel from the air and avoid inhibiting polymerization reaction of the gel.
- Glass plates and combs are marked with thickness and number of wells for easy identification.
- The glass plate with sealing spacer makes it thicker and stronger.



### Product Parameters

Instrument	TSE-P200	TSE-P400
Gel capacity	1-2 Piece	1-4 Piece
Gel thickness	1.0 mm (standard), 0.75 mm, 1.5 mm	
Glass plate dimension	Divided-light glass: 100 x 83 mm    Short glass panel: 100 x 73 mm	
Gel dimension	83 x 73 mm	
Comb specification	10/15 teeth, 1.0 mm (standard)    10/15 teeth, 0.75 mm (optional)    10/15 teeth, 1.5 mm (optional)	
Platinum electrode	φ0.25 mm	
External dimension (L×W×H)	180 x 120 x 160 mm	
Chemical reagent compatibility	Do not touch acetone and ethanol, and combs must not be repeatedly exposed to 100% TEMED	
Power supply	TRANSGEN Universal Electrophoresis System Power Supply (TSE-E) is a suitable alternative (optional)	

# TST Mini Transfer System

## Features

- It can efficiently transfer protein samples to media such as nitrocellulose membranes and PVDF membranes, and two/four transfer chips can be placed at the same time.
- Supports high-current fast transfers or low-current overnight transfers.
- Included 2 cooling units, which can quickly rotate to absorb the heat of buffer.
- Red and black color-coded transfer clips and electrodes to ensure proper orientation of the sample during transfer.



## Product Parameters

Instrument	TST-200	TST-400
Gel capacity	1-2 Piece	1-4 Piece
Electrophoretic core	Polycarbonate	
Sandwich cassette	Polycarbonate	
Electrode	Platinum wire	
Tank and lip	Polycarbonate	
Cooling unit	Polyethylene + high-efficiency cool storage agent	
Electrophoresis tank dimension (L×W×H)	160 × 120 × 180 mm	
Gel clip dimension	100 × 110 mm	109 × 116 mm
Maximum gel dimension	75 × 110 mm	80 × 96 mm
Buffer capacity	Without cooling unit: 850 mL    With cooling unit: 650 mL	
Chemical reagent compatibility	Do not touch chlorinated hydrocarbons (such as chloroform), aromatic hydrocarbons (such as toluene, benzene) and acetone	
Power supply	TRANSGEN Universal Electrophoresis System Power Supply (TSE-E) is a suitable alternative (optional)	

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