Tricine Precast Protein Gel

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1. Product Description

Packaging contents: 10 Tricine precast Protein gels + 1 gel opener.

This product is a polyacrylamide electrophoresis gel, available in 10-well, 12-well, or 15-well formats, with a separation gel concentration of 16.5%. It is suitable for the separation of low-molecular-weight proteins and peptides, with a separation range of 2–200 kDa.

This product is manufactured using fully automated gel pouring technology, ensuring excellent reproducibility and stable quality. The buffer used in this product is Tricine SDS electrophoresis buffer. Please ensure it is diluted to 1X before use. Compared to traditional laboratory self-prepared gels, this product offers the following advantages:

① Convenient to use: Ready-to-use, no need to prepare various solutions or perform gel pouring operations, saving valuable time.

② Safe and reliable: No exposure to toxic reagents.

③ High compatibility: Suitable for various versions of electrophoresis tanks.

④ Stable results: Through fully automated, large-scale production, ensures good reproducibility between each gel and consistent quality.

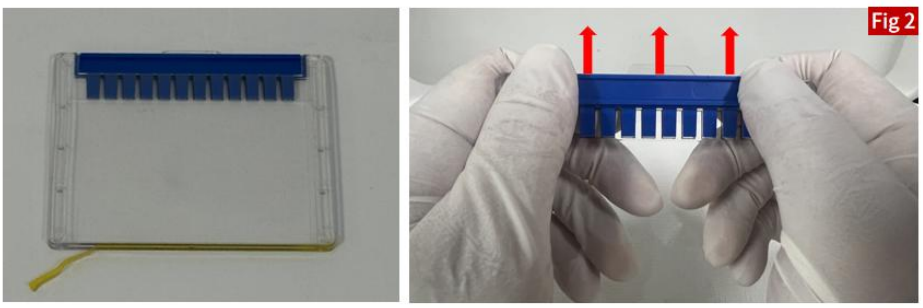
2.Operation Procedure

2.1 Electrophoresis Tank Assembly

When using an electrophoresis tank with a prominent silicone gasket, such as those from Bio-Rad or WIX, the green silicone gasket on the inner frame must be reoriented. Remove the gasket and re-insert it into the groove on the inner frame, ensuring that its flat side is facing outward(Figure 1).

2.2 Precast Gel Preparation

Remove the pre-cast gel from its packaging and detach the gold sealing tape from the bottom of the gel cassette. The comb is then carefully removed by first lifting its left, right, and middle sections slightly to disengage the teeth from the gel, and then steadily pushing it out as illustrated(Figure 2).

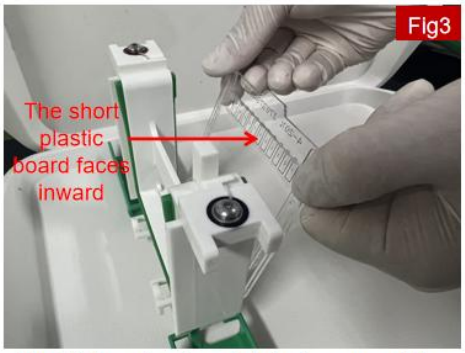


Peel off the sealing tape at the bottom of the gel cassette

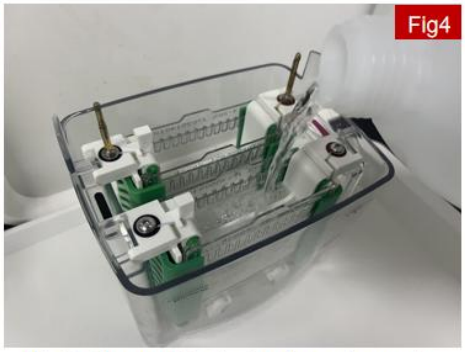
Gently remove the comb from the gel cassette

2.3 Pre-cast Gel Installation

Seat the prepared pre-cast gel in the electrophoresis apparatus(Figure 3). Completely fill the inner chamber with electrophoresis buffer. For the outer chamber, add buffer to a level slightly below the inner chamber (when using 4 gels) or to the halfway point of the tank (when using 2 gels), taking care not to overfill beyond the cassette(Figure 4). It is recommended to use a syringe to gently flush the wells with 1x electrophoresis buffer to clear them of bubbles .Load the protein samples and perform electrophoresis.



Install the adhesive plate in the core of the electrophoresis tank



Add to the protein electrophoresis running buffer

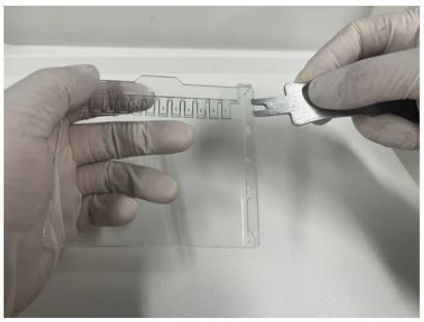
2.4 Remove the gel from the plate:

①Once the electrophoresis is finished, remove the gel plate from the apparatus。

②Open the gel cassette by carefully inserting the opener into the gap between the two plates。

③Wiggle the opener up and down gently and repeat the operations until the two plates are completely separated (Figure 5).

④Upon opening, gel may sit on either side of the cassette. Remove and discard the plate without the gel, and loosen the gel from the other plate with water and gently remove.



Upper

middle

lower

3.Precautions

Store at 2-8°C for 3 months.

Voltage: 160V

Time: Approximately 60 minutes

Buffer: Tricine SDS electrophoresis buffer

Staining method: Coomassie Brilliant Blue staining

4.Related Products

Product	Cat.No.	Size
Tricine Precast Protein Gel（16.5%　10 wells）	TR10165Gel	10PCs/Box
Tricine Precast Protein Gel（16.5%　12 wells）	TR12165Gel	10PCs/Box
Tricine Precast Protein Gel（16.5%　15 wells）	TR15165Gel	10PCs/Box
Tricine SDS　Running Buffer（10X）	BR0131-01	500ml