



Tools for Protein analysis

By

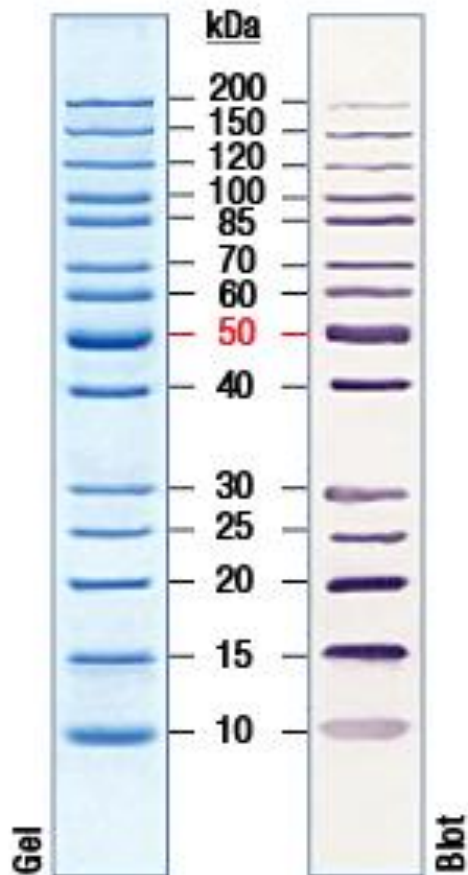
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Chemicals

1. Acrylamide
2. Bis N.N. methylene bisacrylamide
3. Tris-HCl or Tris- base
4. Sodium docylsulphate (SDS)
5. Ammonium persulfate (APS)
6. Glycine (molecular grade)
7. N,N,N',N' tertramethylethylenediamine (TEMED)
8. Glycerol
9. 2- mercaptoethanol
10. Bromophenol blue.
11. Commassie R-250
12. Methanol
13. Butanol or Isopropanol
14. Glacial acetic acid
15. Marker (high, low, and wide range molecular weight)

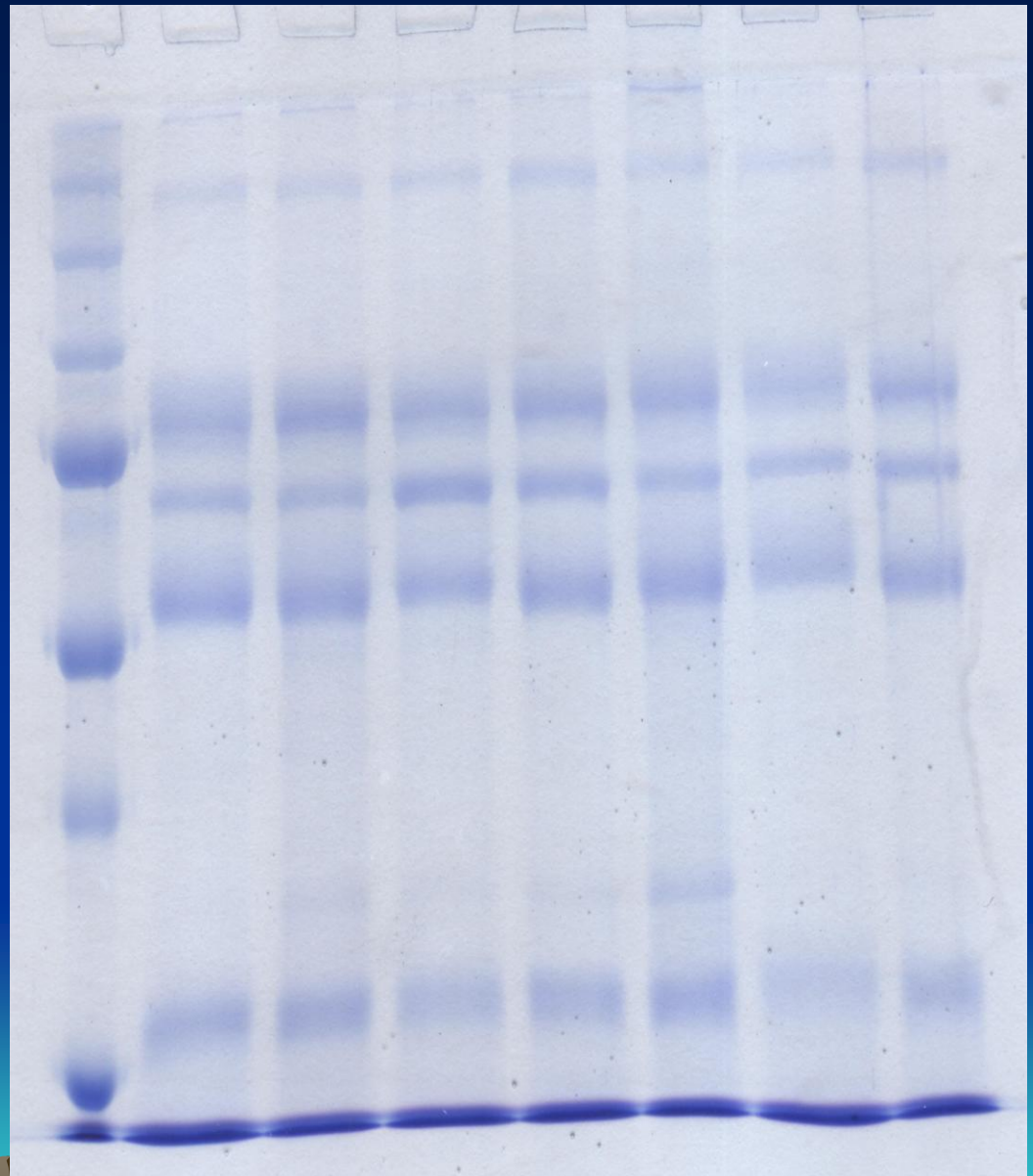
PageRuler™ Unstained Protein Ladder



8-16% Tris-glycine SDS-PAGE

Stained with PageBlue™ Protein
Staining Solution (#P0571)

Detection with
Strep-Tactin®-AP conjugate



Glasses

1. Flasks
2. Containers (glass or plastic)
3. Cylindricals (different size)
4. Beakers (different size)
5. Bootels (different size)
6. Drying or filter papers



apparatuses

1. Cell of electrophoresis
2. Stirrer plate and magnetic stirrer
3. Checker
4. Centrifuge with cooling system
5. Vortex
6. Power supply
7. Illuminator
8. Camera or scanner
9. Different type of micropipette
10. Macropipette
11. Tips (different size)
- 12- water bath

Before gels preparations you should test Cell components

Cell components

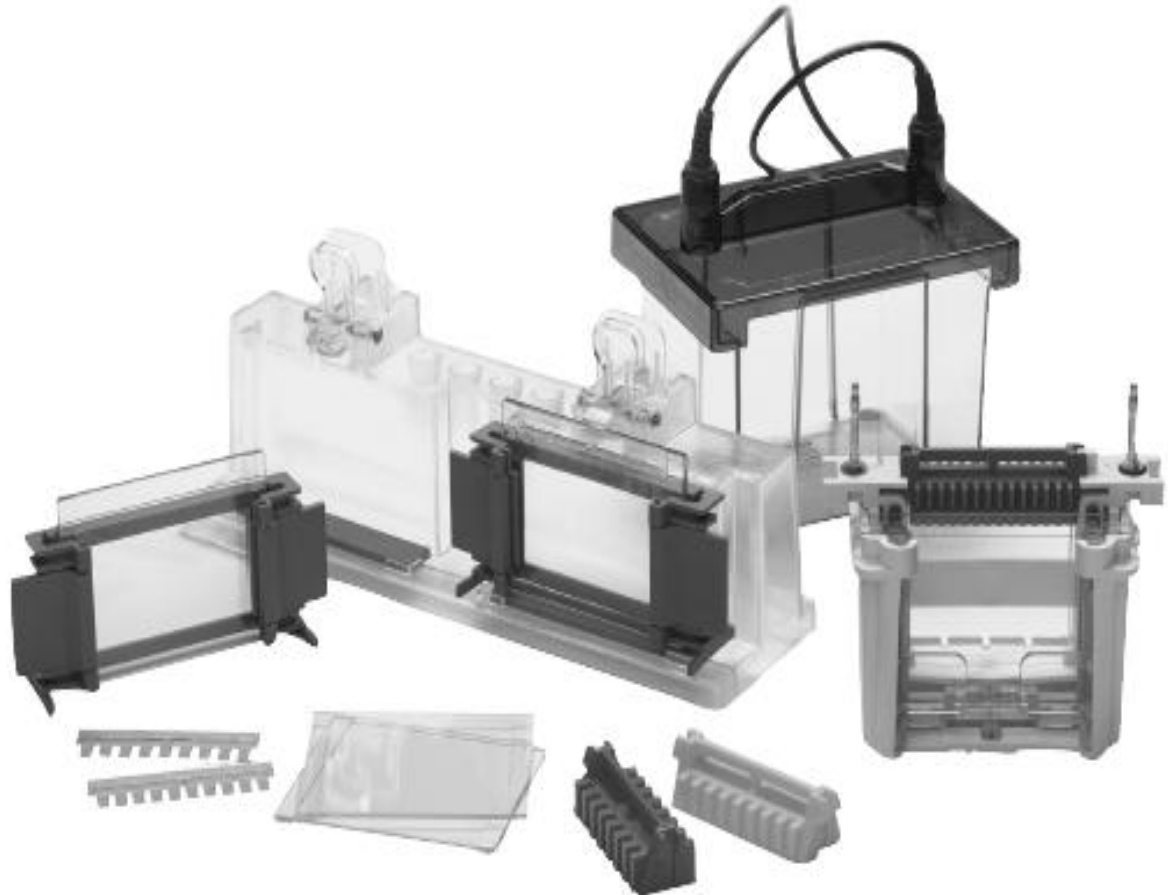
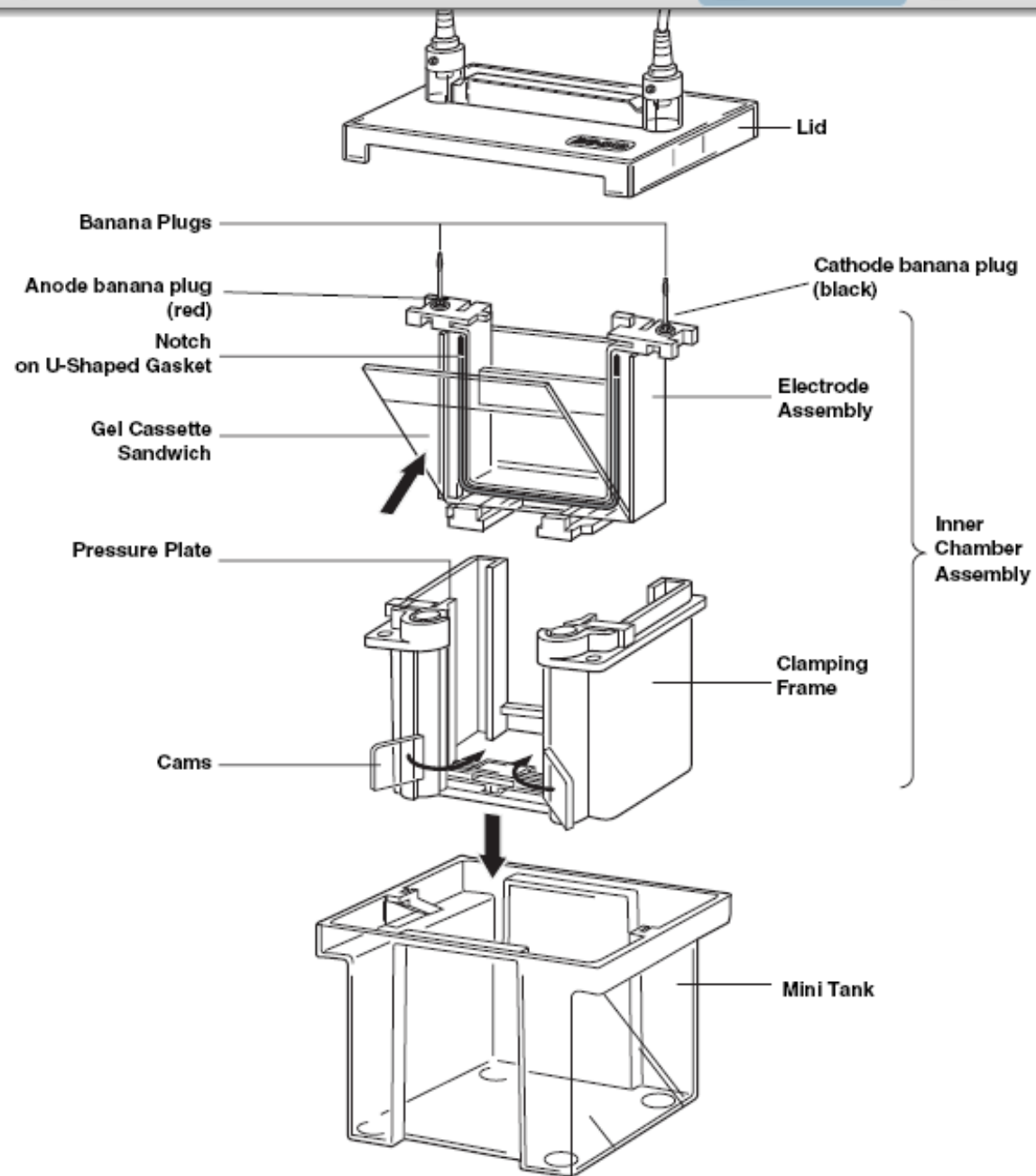
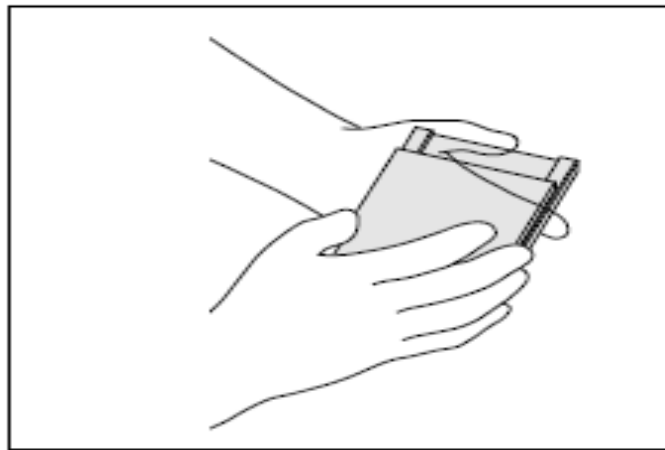


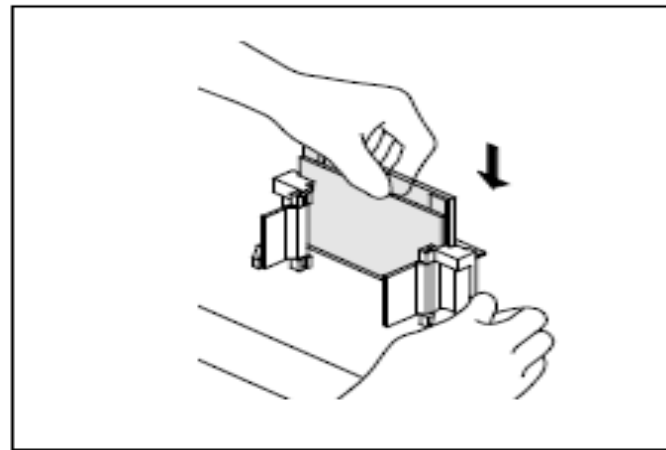
Fig. 1. Mini-PROTEAN 3 system components.

* Preparation of the casting stand

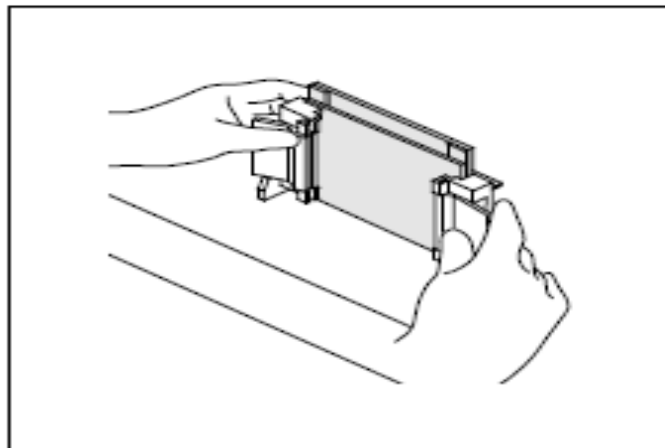




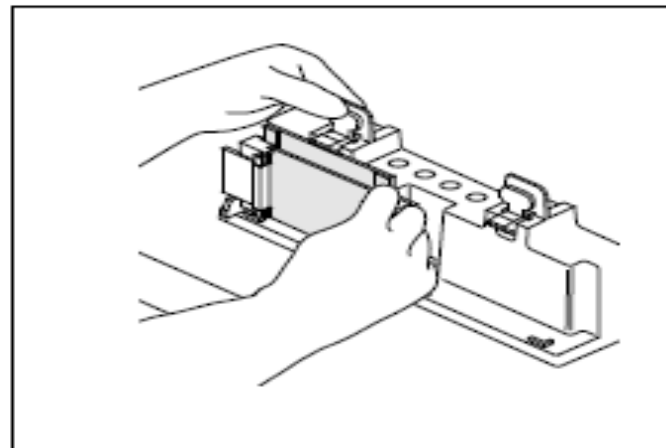
4a. Place a Short Plate on top of the Spacer Plate.



4b. Slide the two plates into the Casting Frame keeping the Short Plate facing front.



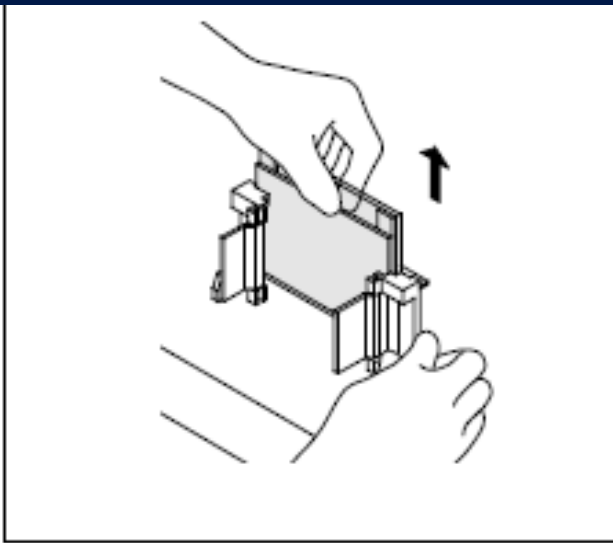
4c. Lock the pressure cams to secure the glass plates.



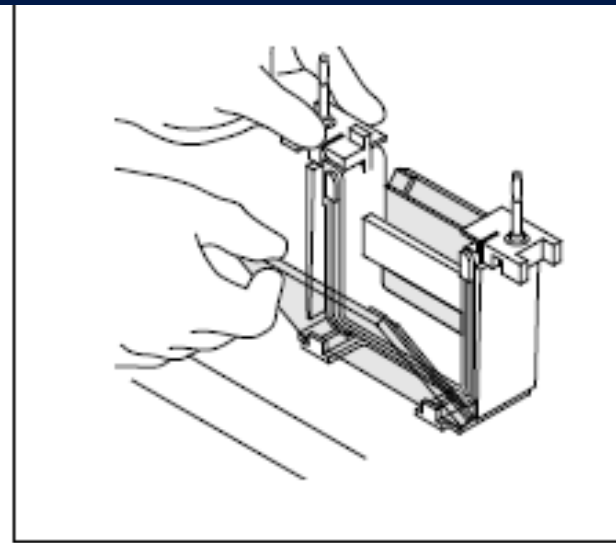
4d. Secure the Casting Frame in the Casting Stand by engaging the spring loaded lever.

Fig. 4. Assembling the Mini-PROTEAN 3 casting stand and frame.

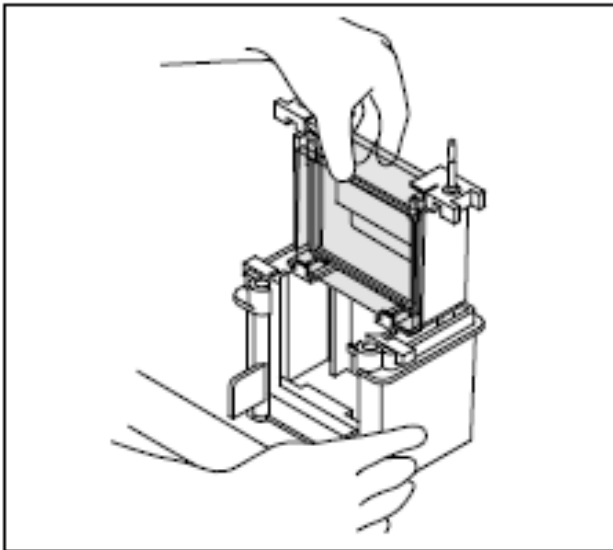
Be sure that NO sealing



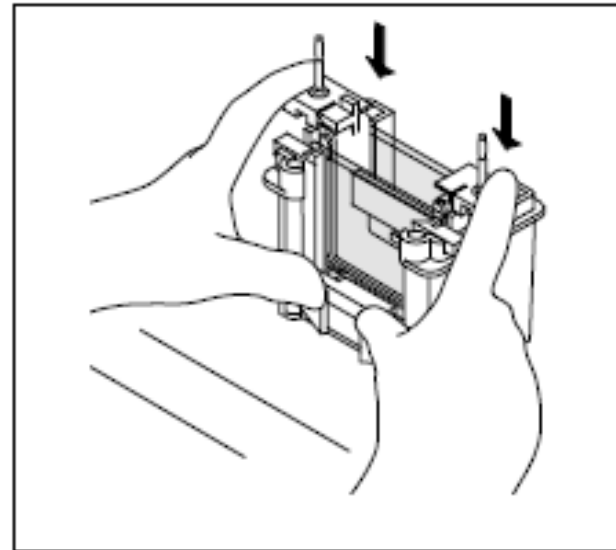
5a. Remove the Gel Cassette Sandwich from the Casting Frame.



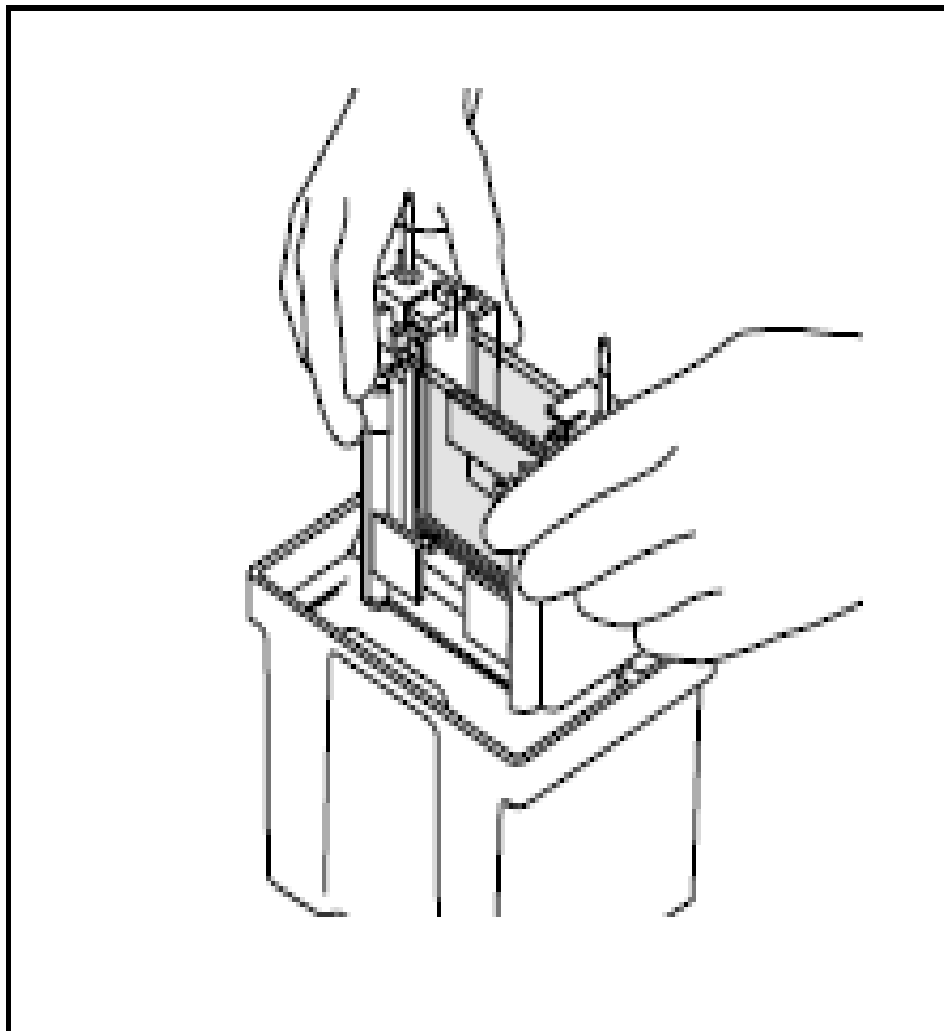
5b. Place Gel Cassette Sandwich into the Electrode Assembly with the Short Plate facing inward.



5c. Slide Gel Cassette Sandwiches and Electrode Assembly into the clamping frame.



5d. Press down on the Electrode Assembly while closing the two cam levers of the Clamping Frame.



5e. Lower the Inner Chamber into the Mini Tank.

Fig. 5. Mini-PROTEAN 3 assembly.

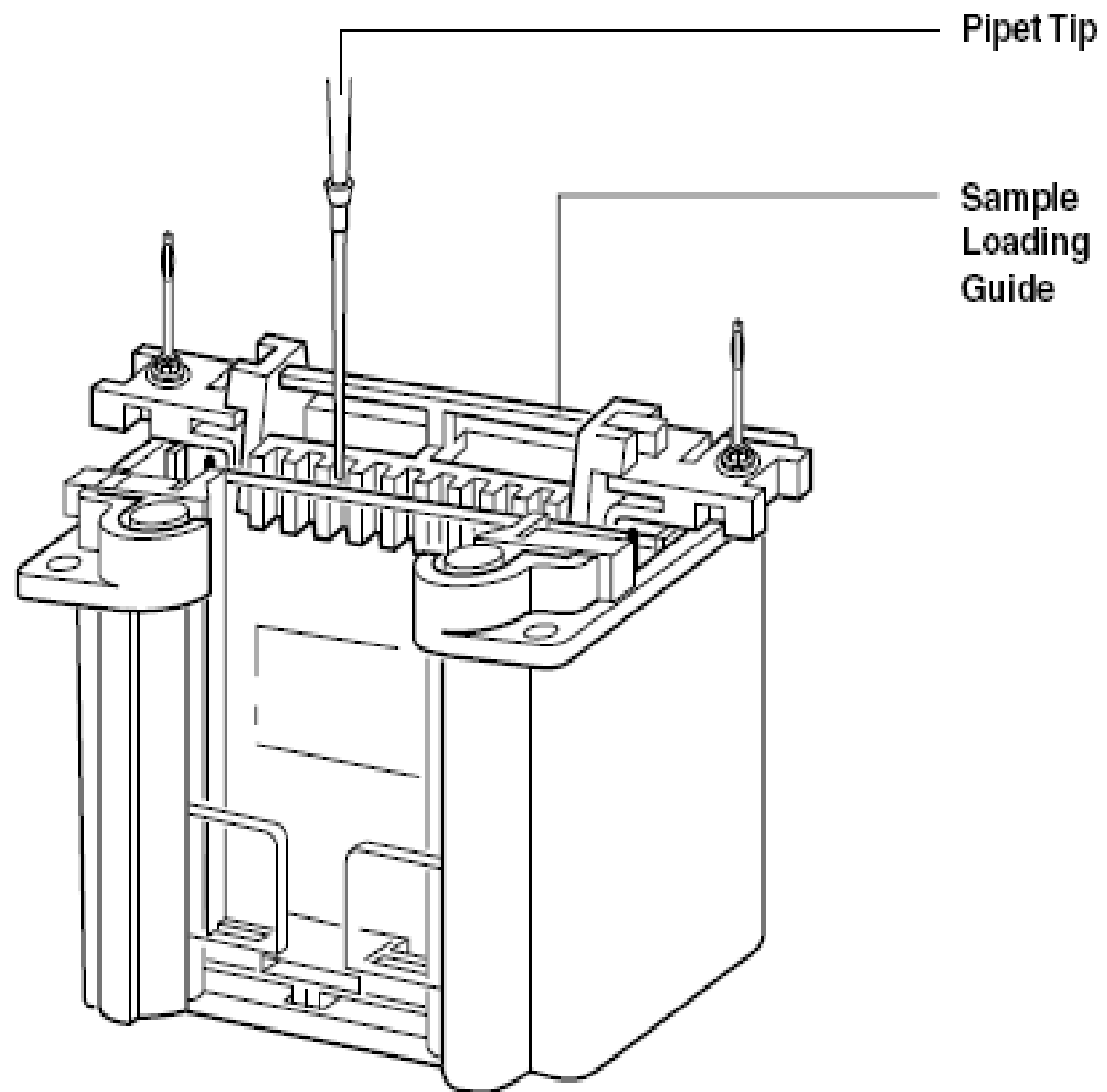


Fig. 6. Using the Sample Loading Guide (patent #5,656,145).



Questions