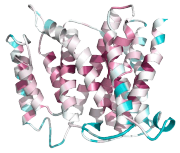
NextGel Preparation



INTRODUCTION

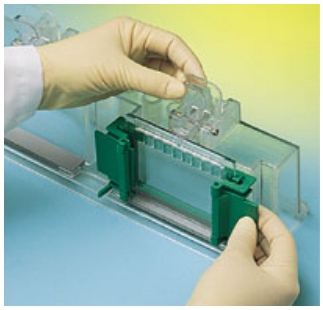
NextGels are a novel mixture of acylamide, misacrylamide, buffer, and SDS with a unique formulation that does NOT require a stacking gel for separation of proteins. However, if using this type of SDS PAGE, ***you must use the buffer solution supplied with the NextGel*** solution.

- NextGel 10% 10 – 200 kDa
- NextGel 12% 3.5 – 100 kDa

PROTOCOL

GEL PREPARATION: Each group will prepare either a 10 or 12% NextGel. **SEE THE VIDEO OF HOW TO PREPARE AND RUN A NEXTGEL**

Be certain not to add the APS and TEMED until you are ready to start the gel. The gel will start to polymerize within 3 or so minutes so be certain everything else is in hand and ready to start.



1. **Ensure that your apparatus is clean and dry.**
2. **Pour 10 ml of NextGel solution to a 10 ml conical tube.**
3. **Add 100 µl 10% APS and 6 µl TEMED to the NextGel solution**, place the cap onto the tube and mix by inversion.
4. Immediately pour the solution between your glass plates. Use a disposable transfer pipet. Fill until the solution to the top of the short glass plate.
5. IMMEDIATELY insert comb by sliding into the glass plates and an angle.
   - It will take 10-20 min for the gel to polymerize
   - Start preparing your chromatography samples for the next step
6. When the gel is polymerized, **the comb may be removed** gently, and the gel sandwich can be loaded into the electrophoresis apparatus.