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5 May 2011

Dear Dr. Hovey:

Attached please find a manuscript entitled "Simple and efficient method to reuse commercial minigel cassettes for polyacrylamide gel electrophoresis". I have included a copy of the Long Abstract as a summary of our manuscript. We believe that the video of our method will be of interest to the viewers of JoVE.

Long Abstract:

The evaluation of proteins using sodium dodeceyl sulfate polyacrylamide gel electrophoresis (SDS-PAGE) analysis is a common technique used by biochemistry and molecular biology researchers. For laboratories that perform daily analyses of proteins, the cost of commercially available polyacrylamide gels (~$10/gel) can be considerable over time. To mitigate this cost, some researchers prepare their own polyacrylamide gels. Traditional methods of pouring these gels typically utilize specialized equipment and gel plates that can be expensive and preclude pouring more than a few gels at a time. Our protocol demonstrates how to pour multiple protein gels at a time by recycling Invitrogen Nupage Novex minigel cassettes, and inexpensive materials purchased at a home improvement store. This economical and streamlined method includes a way to store the gels at 4˚C for a few weeks. By re-using the plastic gel cassettes from commercially available gels, labs that run frequent protein gels can save significant costs and help the environment.

Sincerely yours,

David G. Oppenheimer
Associate Professor