Coomassie Blue Stain

2017 Protocols

Purpose:

To visual total protein in a given sample

Required Materials:

- dH_2O
- 1.5M Tris HCl pH 8.8
- 0.5M Tris HCl pH 6.8
- 30% Acrylamide/Bis solution (Bio-Rad)
- 10% SDS
- 10% Ammonium Persulfate in dH_2O
- TEMED
- 2X SDS Gel Running Buffer
- Gel dock, glass gel plates
- Glacial Acetic Acid
- methanol
- Coomassie Brilliant Blue R-250

Solutions

Destain Solution (1L)

- 500mL H2O
- 400mL Methanol
- 100mL Glacial Acetic Acid

Coomassie Brillant Blue Solution

- 1 g of Coomassie
- 500 mL Methanol
- 100 mL Glacial Acetic Acid
- Up to 1L with H2O

Stir for 3-4 hours, then filter through Whatman filter paper

Procedure:

1. Repeat steps 1-8 of the Western Blot protocol.
2. Once gels have finished running, cover gel with Coomassie Brillant Blue, cover with lid, and incubate for 30 min
3. Rinse with water twice
4. Add enough destain solution to cover the gel and leave overnight, gently shaking at room temperature