Protein SDS-PAGE electrophoresis protocol

1. Place gel in a plastic electrophoresis chamber and corresponding gel holder.
2. Prepare 1X SDS-PAGE Running Buffer as follows: for 500 mL of 1X SDS-PAGE Running Buffer by adding 50 mL of 10X SDS-PAGE Running Buffer (MB-017) to 450 mL of diH20 (MB-009-1000).
3. Fill the inner portion between the gel(s) and the gel holder with the appropriate 1X Running Buffer. Pour the remaining 1X Running Buffer into the outer chamber.
4. Heat samples at 95°C for 5 minutes.
5. Add 10ul 4X loading buffer into 30ul sample for each.
6. Load all samples into gel lanes.
7. Cover the chamber and firmly connect both the anode and the cathode. Set the voltage on the electrophoresis power supply to a constant voltage of 150 V.
8. Allow the gel to electrophorese for 45–90 minutes.
9. Disconnect the electrodes and remove the cover. Remove gel holder from the electrophoresis chamber. Carefully remove the gel from holder.
10. Remove the gel from its plates.
11. Dye the gel in Coomassie brilliant blue