Northern Gel Protocol

1] **Wash** the gel rig,comb, caster, etc. with Hot 0.5% SDS for 10 minutes

2] **Wash** the gel rig, etc. with DEPC water and allow to air dry in hood

3] **Prepare** 1% Gel by:
- **Add** 0.80gm Agarose
- **Add** 8ml 10X FA Gel Buffer
- **Add** 69.6ml DEPC water
- **Cover** with saran and poke hole to vent
- **Heat** micorwave until all agarose is dissolved
- **Cool** for a few minutes at room temp
- **Place** in 65C water bath with light shaking for 10-15 minutes
- **Add** 2.4ml Formaldehyde

4] **Set** up gel caster with comb in it

5] **Pour** gel in casting tray and let sit for at least 15min

6] **Place** gel with tray in the gel rig

7] **Fill** gel rig with FA Gel Running Buffer so that it barely covers the gel

8] **Equilibrate** gel by letting it sit in buffer for 30min

9] **Prepare** Sample and Ladder:
- **Add** ~20ug total RNA (use 2-3ul of ladder)
- **Add** 15-20ul RNA Sample Buffer
- **Add** 3-5ul RNA Loading Buffer
- **Mix** by vortex
- **Heat** at 65C for 10min
- **Quench** on ice for 2 minutes
- **Spin** to collect everything

10] **Load** samples onto gel

11] **Run** gel at ~60-70V

12] **Stop** running when bromophenol blue front is a few centimeters from end of gel

13] **Soak** gel in DEPC water for 10min with gentle shaking

14] **Take** picture with **ruler** and procede to blotting protocol