

FORMALDEHYDE GELS:

0.6g Agarose
36mL DEPC-dH₂O
5mL 10X MOPS buffer
Microwave and cool to 50°C
Add 8mL 37% formaldehyde
Pour gel (cover) and let harden for 30 minutes

RNA SAMPLES:

RNA in 5uL DEPC-dH₂O (~15ug for Northern)
+ 2uL 10X MOPS
+ 10uL formamide
+ 3.5 uL formaldehyde
(make a 10 sample cocktail, 15uL per sample)
****Pre-run gel in 1X MOPS for 15 minutes****
Heat @ 65°C x 15 min, place on ice, and add 1uL loading dye
Load samples and run @ 57V for 2.5-3 hrs (Northern) or 1 hr to check RNA

STAINING AND WASHING GEL AFTER ELECTROPHORESIS:

Stain for 45 min in 100mL DEPC-dH₂O + 5uL Ethidium Bromide
Destain in 100mL DEPC-dH₂O for 30 min, check on UV
Wash in 300mL DEPC-dH₂O overnight if needed