

Native gradient gel

<u>3.5% gel</u>	<u>15% gel</u>	<u>Stacker</u>
220 μL 40% acryl	938 μL 40% acryl	100 μL 40% acryl
56 μL 2% bis	240 μL 2% bis	28 μL 2% bis
250 μL 10x TG	250 μL 10x TG	125 μL 10x TG (pH 6.8)
1.914 mL H ₂ O	392 μL H ₂ O	957 mL H ₂ O
----- 40% glycerol	605 μL 40% glycerol	----- 40% glycerol
25 μL 10% APS	25 μL 10% APS	25 μL 10% APS
2.5 μL TEMED	2.5 μL TEMED	2.5 μL TEMED
	Bromphenol blue	

1. Add a 500 μL “bumper” of 15% gel to bottom of gel caster.
2. To form the gradient in a disposable pipet, carefully suck up 1.5 mL 3.5% gel followed by 1.5 mL of 15% without mixing.
3. Mix by pipetting in 2 or 3 air bubbles and letting them rise through the gel solutions.
4. Carefully the pipet the gradient on top of the bumper, and add 3.5% gel to ~2 cm below the top of the gel. Add a thin layer of water-saturated butanol, let gel polymerize 30 min.
5. Pour off butanol and rinse well with water, add stacking gel and comb, polymerize for 30 min.
6. Load MCMs (1-2 μg) without loading dye, run for 3 hr at 170 V.

Visualization

Silver stain normally, or Sypro stain O/N at room temp. If doing a Western, the transfer will take longer.