

## Silver Stain

	Stock	Fixing Solution	0.02% Sodium Thiosulfate	0.1% Silver Nitrate	Developing Solution	Citric acid
<b>Methanol</b>	100%	100 mL				
<b>Formalin</b>	100%	33.75 mL			125 uL	
<b>Sodium Thiosulfate</b>			0.05 g		200 uL	
<b>Silver Nitrate</b>				0.25 g		
<b>Sodium carbonate</b>					7.5 g	
<b>Citric Acid</b>						6 g
<b>H2O</b>		116.25 mL	250 mL	250 mL	249.675 mL	12.5 mL

Soak gel for 10 minutes in the fixing solution

Wash gel twice in 250 mLs ddH<sub>2</sub>O for 5 minutes each

Soak gel for 1 minute in 0.02% Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> (start sucking off the fluid after 40 seconds)

Wash gel twice in 250 mLs ddH<sub>2</sub>O for 20 seconds each

Soak gel for 10 minutes in 0.1% AgNO<sub>3</sub>

Rinse gel in 20 mLs developing solution and remove immediately

Soak the gel in fresh developing solution until band intensities are dark (~1-5 minutes).

Do not over develop at this step because developing will continue after addition of citric acid

Add 12.5 mL citric acid solution or 6 g of citric acid directly and continue shaking for 10 minutes

Wash the gel for 10 minutes in water

Replace water and soak for 30 minutes before gel drying