

Protocol for Making Dyes for Electrophoresis

Samples of the following dyes:

0.25% Bromophenol blue

___% Bromocresol green

___% Methylene blue

___% Crystal violet

___% Fluoroscene

0.25% Janus green

1.00% Orange G

0.25% Safranin O

0.25% Xylene cyanol

___% Red, blue, green, yellow food coloring

___% Various mixtures of the above dyes (labeled unknowns)

When using this protocol the granular dyes should be made up in the following concentrations:

- For all except Orange G use 25 mg of dye, add either 10 ml of 60% glycerol solution or 4 g of sugar and make up to 10 ml with distilled water.
- For Orange G use 100 mg of dye and make up as above. The Orange G is only 50 bp in size and is easily run off the end of the gel. It runs far ahead of the Bromophenol blue which is the easiest dye to see.
- Note: For the liquid dyes, if necessary, dilute with the 60% glycerol solution to the required dilution.
- On the gel load 10 μ l of each dye into a well. Keep track of which dye goes into which well on a notebook sheet. Use a new tip for each dye and be careful not to puncture the bottom of the well.
- Run dyes on a 0.8-1% Agarose Gel and 1X TAE Buffer.