## Protocol for Staining DNA in Polyacrylamide Gels Using Ethyl Violet

From: Cong et al. (2010) A visible dye-based method for DNA in polyacrylamide gels by ethyl violet. Analytical Biochemistry **402:** 99-101.

## Materials Needed:

Dish for gel
Distilled water pH 6→8.
0.4 % ethyl violet solution in 90% ethanol 50% ethanol solution
white background/light box

- 1. Run DNA on a TBE polyacrylamide gel.
- 2. About 5 minutes before completing gel run dilute the 0.4% ethyl violet stock solution to a working concentration of 0.0008% in distilled water.

For 100 mL

 $200 \mu L$  of 0.4% ethyl violet 100 mL of distilled water

- 3. After gel has finished running remove gel from glass plates and place in the 0.0008% ethyl violet solution for 20 minutes to stain.
- 4. After a 20 minute incubation remove the staining solution and wash the gel in 50% ethanol for 1 minute.
- 5. Remove the 50% ethanol (can save for multiple destains) wash the gel for 1 minute with distilled water.
- 6. Image DNA bands.

## 0.4% Ethyl Violet Stock Solution:

100 mL of 90% ethanol 400 mg of Ethyl Violet

Place in foil wrapped bottle for storage.