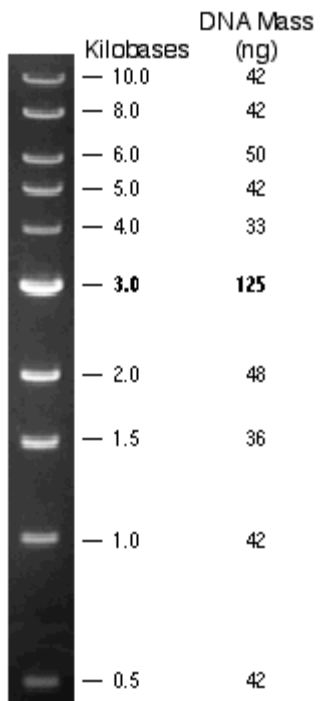


Wed. Sept. 7, 2005.09.06

Supplemental Experiment

Re-run your samples on the gel with controls. To help you determine the correct concentration of your plasmid, you will run a different ladder with control unknowns in your 1% agarose gel. The ladder you will use is 1 kb DNA ladder from NEB.



0.5 μg of 1 kb DNA Ladder visualized by ethidium bromide staining on a 0.8% TAE agarose gel.

If half a microgram is ran on the gel, then the DNA Mass for each fragment is equal to the DNA Mass on the above gel image.

Protocol

1. Run a 1% agarose gel
2. Load 0.5 μg of 1 kb DNA Ladder (see prep TA for volume to load)
3. Load control digest of pCR2.1 w/ 5 μL of orange dye (see prep TA for volume to load)
4. Load 5 μL w/ 5 μL of orange dye of your uncut plasmid
5. Load 10 μL of your digested plasmid w/ 5 μL of orange dye from previous exercise
6. Run gel at 120V
7. Document the gel
8. Analyze data