

AP Biology Lab 06 – Molecular Biology

Video Review Sheet

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1. Bacterial Transformation: passing _____ from one bacterium to another.
2. Gel electrophoresis is: separating...
3. Plasmids, extra pieces of DNA, give bacteria the ability to do
4. For the example plasmid:
 - a. ori: where it is
 - b. amp: ampicillin
 - c. GFP stands for:
 - d. araC: a
5. The four plates with bacteria:
 - a. LB: all bacteria will grow, checks to see if they are living, don't need any plasmid.
 - b. LB/amp: unless they get the ampicillin _____ (from the plasmid), they won't be able to grow here. Since no plasmid was given to these bacteria, no growth is expected.
 - c. LB/amp: should _____ because their received the plasmid.
 - d. LB/amp/ara: these are the only colonies that
6. Gel Electrophoresis:
 - a. Load up the _____ in wells and they will be pulled through the gel due to an electric current.
 - b. The smaller the piece of DNA...
 - c. Restriction enzymes cut the DNA in specific _____. You can digest DNA using a restriction enzyme (RE). Different RE's cut in different points.
 - d. Use micropipppers to get _____ amounts of DNA
 - e. Analysis: use a _____, known sizes of DNA to compare to our cut/uncut DNA