Lab Report 4

Experiment 18

This report covers experiment 18 (Southern Blot Analysis of Plasmids pRIT4501 and pRIT4502). In this experiment you cut your plasmids and chromosomal DNA with EcoRI, ran the fragments on a gel, and transferred the DNA to a nitrocellulose membrane to do a Southern blot. One team used pUC9 as the probe and the other used pPBAC.

In this lab report you must explain the banding pattern of both probes with respect to the EcoRI restriction map for each plasmids.

Required data elements are:

☐ photograph of the gel
☐ photograph of the pUC9 blot
☐ photograph of the pPBAC blot

Analysis
☐ restriction maps of PRIT4501 and pRIT4502
☐ diagram showing the predicted blotting pattern relative to the restriction maps
☐ explanation of why you obtain the observed bands