Miniprep

Qiagen Kit

Name: Date:

Continue from Experiment
(Date)

(Name)

Project Name:

Procedure:

The following procedures are carried out at a room temperature. All centrifugation steps should be performed between 11,000 – 16,000 x g

1. Centrifuge 0.5 – 5 ml of bacterial culture in a clear 1.5 ml tube at full speed for 15 – 20 seconds in a microcentrifuge. Discard supernatant.

2. Add 200 µl of **P1 Buffer** (Red) to the tube and resuspend pellet completely (i.e., by vortexing or pipetting).

3. Add 200 µl of **P2 Buffer** (Green) and mix by inverting the tube 2 – 4 times. Cells are completely lysed when the solution appears clear, purple and viscous. **Proceed to the next step within 1-2 minutes**.

4. Add 400 µl of **P3 Buffer** (Yellow) and mix gently but thoroughly. Do not vortex. The sample will turn yellow when the neutralization is complete. Allow the lysate to incubate at room temperature for 1-2 minutes.

5. Centrifuge sample(s) for 2 minutes.

6. Place a **Zymo-Spin IIN** column in a **Collection Tube** and transfer the supernatant from step 5into the **Zymo-Spin IIN** column. When pipetting the supernatant be careful not to disturb the green pellet to avoid transferring anz cellular debris to the column.

7. Centrifuge the **Zymo-Spin IIN/Collection Tube** assembly for 30 seconds.

8. Discard the flow-through in the **Collection Tube,** making sure the flow-through does not touch the bottom of the column. Return the **Zymo-Spin IIN** column to the **Collection Tube**

9. Add 200 µl of **Endo-Wash-Buffer** to the column and centrifuge for 30 seconds.

10. Add 400 µl of **Plasmid Wash Buffer** to the column. Centrifuge for 1 minute.

11. Transfer the column into a clean 1.5 ml microcentrifuge tube and then add 30 µl of **DNA Elution Buffer** to the column. Centrifuge for 30 seconds to elute the plasmid DNA.

Documentation:

Why are you doing this experiment? Name the parts which you extract.

Describe your results and mistakes and measure the DNA concentration with the Nanodrop and note the results.

How did you label your probes and where are they stored?