LABORATORY E: USING PCR TO AMPLIFY THE RFP GENE

Reference: Colony PCR Student Guide

In your own words, describe the **Purpose** of Lab E

**Methods:** Finish the flowgram for **Lab E Part A: The PCR Reaction** by describing the step for each of the diagrams below:

Diagram 1:
- PCR tubes
- Vials

Diagram 2:
- Tubes labeled 1, 2, 3, 4
- 11.5 µL

Diagram 3:
- Pipette
- Tubes labeled 1, 2, 3, 4

Diagram 4:
- Tubes labeled 1, 2, 3, 4
- 2 µL

Diagram 5:
- Tubes labeled 1, 2
- 1 µL

Diagram 6:
- Tubes labeled 2, 3
- 1 µL

Diagram 7:
- Tubes labeled 3, 4
- 1 µL

Diagram 8:
- Tubes labeled 4
- 1 µL

Diagram 9:
- Tubes labeled 5
- 2 µL

Diagram 10:
- Tubes labeled 6
- 2 µL

Diagram 11:
- Tubes labeled 7
- 2 µL

Diagram 12:
- Tubes labeled 8
- 2 µL

Diagram 13:
- Tubes labeled 9
- 2 µL

Diagram 14:
- Tubes labeled 10
- 2 µL

Diagram 15:
- Tubes labeled 11, 12
- 2 µL

Diagram 16:
- Tubes labeled 13, 14
- 2 µL

Diagram 17:
- Tubes labeled 15, 16
- 2 µL

Diagram 18:
- Tubes labeled 17, 18
- 2 µL

Diagram 19:
- Tubes labeled 19, 20
- 2 µL

Diagram 20:
- Tubes labeled 21
- 2 µL

Diagram 21:
- Tubes labeled 22
- 2 µL

Diagram 22:
- Tubes labeled 23
- 2 µL

Diagram 23:
- Tubes labeled 24
- 2 µL

Diagram 24:
- Tubes labeled 25
- 2 µL

Diagram 25:
- Tubes labeled 26
- 2 µL

Diagram 26:
- Tubes labeled 27
- 2 µL

Diagram 27:
- Tubes labeled 28
- 2 µL

Diagram 28:
- Tubes labeled 29
- 2 µL

Diagram 29:
- Tubes labeled 30
- 2 µL

Diagram 30:
- Tubes labeled 31
- 2 µL

Diagram 31:
- Tubes labeled 32
- 2 µL

Diagram 32:
- Tubes labeled 33
- 2 µL

Diagram 33:
- Tubes labeled 34
- 2 µL

Diagram 34:
- Tubes labeled 35
- 2 µL

Diagram 35:
- Tubes labeled 36
- 2 µL

Diagram 36:
- Tubes labeled 37
- 2 µL

Diagram 37:
- Tubes labeled 38
- 2 µL

Diagram 38:
- Tubes labeled 39
- 2 µL

Diagram 39:
- Tubes labeled 40
- 2 µL

Diagram 40:
- Tubes labeled 41
- 2 µL

Diagram 41:
- Tubes labeled 42
- 2 µL

Diagram 42:
- Tubes labeled 43
- 2 µL

Diagram 43:
- Tubes labeled 44
- 2 µL

Diagram 44:
- Tubes labeled 45
- 2 µL

Diagram 45:
- Tubes labeled 46
- 2 µL

Diagram 46:
- Tubes labeled 47
- 2 µL

Diagram 47:
- Tubes labeled 48
- 2 µL

Diagram 48:
- Tubes labeled 49
- 2 µL
Colony PCR Part B

Methods: Finish the flowchart for Lab E Part B: Separate the PCR products using gel electrophoresis by describing the step for each of the diagrams below: