**Dyes to Prepare for Students:**

**A**: 2mL -6M Fluorescein **B**: 1mL -5M Fluorescein **C**: 1mL -4M Fluorescein

**D**: 2mL -5M Rhudimine **E**: 1mL -4M Rhudimine **F**: 1mL -3M Rhudimine

**Tube rack**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **A** | **B** | **C** | **D** | **E** | **F** |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

**Student 1 Protocol**

**Transfer To**

1. 200uL Tube Rack/A 96-well plate/A1.
2. 125uL Tube Rack/A Tube Rack/1.

125uL H2O Tube Rack/1.

Vortex.

200uL Tube Rack/1 96-well plate/A2.

1. 10uL Tube Rack/B Tube Rack/2

390uL H2O Tube Rack/2.

Vortex.

200uL Tube Rack/2 96-well plate/A3.

1. 5uL Tube Rack/B Tube Rack/3

395uL H2O Tube Rack/3.

Vortex.

200uL Tube Rack/3 96-well plate/A4.

1. 0.5uL Tube Rack/C Tube Rack/4

800uL H2O Tube Rack/4.

Vortex.

200uL Tube Rack/4 96-well plate/A5.

1. 25uL Tube Rack/B Tube Rack/5

225uL H2O Tube Rack/5.

Vortex.

200uL Tube Rack/5 96-well plate/A6.

1. 200uL Tube Rack/D 96-well plate/A7.
2. 125uL Tube Rack/D Tube Rack/6.

125uL H2O Tube Rack/6.

Vortex.

200uL Tube Rack/6 96-well plate/A8.

1. 10uL Tube Rack/E Tube Rack/7

390uL H2O Tube Rack/7.

Vortex.

200uL Tube Rack/7 96-well plate/A9.

1. 5uL Tube Rack/E Tube Rack/8

395uL H2O Tube Rack/8.

Vortex.

200uL Tube Rack/8 96-well plate/A10.

1. 0.5uL Tube Rack/F Tube Rack/9

800uL H2O Tube Rack/9.

Vortex.

200uL Tube Rack/9 96-well plate/A11.

1. 25uL Tube Rack/E Tube Rack/10

225uL H2O Tube Rack/10.

Vortex.

200uL Tube Rack/10 96-well plate/A12.

**Student 2 Protocol**

**Transfer To**

1. 200uL Tube Rack/A 96-well plate/C1.
2. 125uL Tube Rack/A Tube Rack/1.

125uL H2O Tube Rack/1.

Vortex.

200uL Tube Rack/1 96-well plate/C2.

1. 10uL Tube Rack/B Tube Rack/2

390uL H2O Tube Rack/2.

Vortex.

200uL Tube Rack/2 96-well plate/C3.

1. 5uL Tube Rack/B Tube Rack/3

395uL H2O Tube Rack/3.

Vortex.

200uL Tube Rack/3 96-well plate/C4.

1. 0.5uL Tube Rack/C Tube Rack/4

800uL H2O Tube Rack/4.

Vortex.

200uL Tube Rack/4 96-well plate/C5.

1. 25uL Tube Rack/B Tube Rack/5

225uL H2O Tube Rack/5.

Vortex.

200uL Tube Rack/5 96-well plate/C6.

1. 200uL Tube Rack/D 96-well plate/C7.
2. 125uL Tube Rack/D Tube Rack/6.

125uL H2O Tube Rack/6.

Vortex.

200uL Tube Rack/6 96-well plate/C8.

1. 10uL Tube Rack/E Tube Rack/7

390uL H2O Tube Rack/7.

Vortex.

200uL Tube Rack/7 96-well plate/C9.

1. 5uL Tube Rack/E Tube Rack/8

395uL H2O Tube Rack/8.

Vortex.

200uL Tube Rack/8 96-well plate/C10.

1. 0.5uL Tube Rack/F Tube Rack/9

800uL H2O Tube Rack/9.

Vortex.

200uL Tube Rack/9 96-well plate/C11.

1. 25uL Tube Rack/E Tube Rack/10

225uL H2O Tube Rack/10.

Vortex.

200uL Tube Rack/10 96-well plate/C12.

**Student 3 Protocol**

**Transfer To**

1. 200uL Tube Rack/A 96-well plate/E1.
2. 125uL Tube Rack/A Tube Rack/1.

125uL H2O Tube Rack/1.

Vortex.

200uL Tube Rack/1 96-well plate/E2.

1. 10uL Tube Rack/B Tube Rack/2

390uL H2O Tube Rack/2.

Vortex.

200uL Tube Rack/2 96-well plate/E3.

1. 5uL Tube Rack/B Tube Rack/3

395uL H2O Tube Rack/3.

Vortex.

200uL Tube Rack/3 96-well plate/E4.

1. 0.5uL Tube Rack/C Tube Rack/4

800uL H2O Tube Rack/4.

Vortex.

200uL Tube Rack/4 96-well plate/E5.

1. 25uL Tube Rack/B Tube Rack/5

225uL H2O Tube Rack/5.

Vortex.

200uL Tube Rack/5 96-well plate/E6.

1. 200uL Tube Rack/D 96-well plate/E7.
2. 125uL Tube Rack/D Tube Rack/6.

125uL H2O Tube Rack/6.

Vortex.

200uL Tube Rack/6 96-well plate/E8.

1. 10uL Tube Rack/E Tube Rack/7

390uL H2O Tube Rack/7.

Vortex.

200uL Tube Rack/7 96-well plate/E9.

1. 5uL Tube Rack/E Tube Rack/8

395uL H2O Tube Rack/8.

Vortex.

200uL Tube Rack/8 96-well plate/E10.

1. 0.5uL Tube Rack/F Tube Rack/9

800uL H2O Tube Rack/9.

Vortex.

200uL Tube Rack/9 96-well plate/E11.

1. 25uL Tube Rack/E Tube Rack/10

225uL H2O Tube Rack/10.

Vortex.

200uL Tube Rack/10 96-well plate/E12.

**Student 4 Protocol**

**Transfer To**

1. 200uL Tube Rack/A 96-well plate/G1.
2. 125uL Tube Rack/A Tube Rack/1.

125uL H2O Tube Rack/1.

Vortex.

200uL Tube Rack/1 96-well plate/ G2.

1. 10uL Tube Rack/B Tube Rack/2

390uL H2O Tube Rack/2.

Vortex.

200uL Tube Rack/2 96-well plate/G3.

1. 5uL Tube Rack/B Tube Rack/3

395uL H2O Tube Rack/3.

Vortex.

200uL Tube Rack/3 96-well plate/G4.

1. 0.5uL Tube Rack/C Tube Rack/4

800uL H2O Tube Rack/4.

Vortex.

200uL Tube Rack/4 96-well plate/G5.

1. 25uL Tube Rack/B Tube Rack/5

225uL H2O Tube Rack/5.

Vortex.

200uL Tube Rack/5 96-well plate/G6.

1. 200uL Tube Rack/D 96-well plate/G7.
2. 125uL Tube Rack/D Tube Rack/6.

125uL H2O Tube Rack/6.

Vortex.

200uL Tube Rack/6 96-well plate/G8.

1. 10uL Tube Rack/E Tube Rack/7

390uL H2O Tube Rack/7.

Vortex.

200uL Tube Rack/7 96-well plate/G9.

1. 5uL Tube Rack/E Tube Rack/8

395uL H2O Tube Rack/8.

Vortex.

200uL Tube Rack/8 96-well plate/G10.

1. 0.5uL Tube Rack/F Tube Rack/9

800uL H2O Tube Rack/9.

Vortex.

200uL Tube Rack/9 96-well plate/G11.

1. 25uL Tube Rack/E Tube Rack/10

225uL H2O Tube Rack/10.

Vortex.

200uL Tube Rack/10 96-well plate/G12.