

## **PROTOCOL TO LABEL BACTERIA WITH 5-(4,6-DICHLOROTRIAZIN-2-YL)AMINO) FLUORESCHEIN HYDROCHLORIDE (5-DTAF)**

- Grow bacteria o/n.
- Centrifuge (6000-8000 RPM, 10') to concentrate bacteria.
- Resuspend in 500  $\mu$ L PBS (1X).
- Take 100  $\mu$ L and to dilute in 900  $\mu$ L bicarbonate buffer (0.009 M  $\text{Na}_2\text{CO}_3$  ;
- Take 950  $\mu$ L and add 50  $\mu$ L of DTAF solution (100  $\mu$ g).
- Stain 2 hours with shaking in darkness.
- Wash 3 times in Bicarbonate buffer:
  - i. centrifuge 5000 RPM, 5'
  - ii. discard s/n
  - iii. Add 1 mL of bicarbonate buffer
- After the last wash, resuspend the pellet in PBS (1X).
- Make serial dilutions to plate and count UFC.
- Infect.

### **Solutions:**

#### **Sodium bicarbonate buffer pH 9 (200 mL)** Cold Spring Harb Protocols, 2011.

- 1. Prepare a 0.2-M solution of anhydrous sodium carbonate (2.2 g/100 mL).
- 2. Prepare a 0.2-M solution of sodium bicarbonate ( $\text{Na}_2\text{CO}$ ) (1.68 g/100 mL).
- 3. Combine 4 mL of carbonate solution from Step 1 and 46 mL of bicarbonate solution from Step 2.
- 4. Bring to 200 mL with  $\text{H}_2\text{O}$ .

### **DTAF**

- 2,5  $\mu$ L DTAF (50 mg/ml in DMSO)
- 47,5  $\mu$ L buffer bicarbonate