

Team

Logo

Team Name: \_\_\_\_\_

### **Colony Forming Unit (Cfu) Calculation Record**

1. Choose a plate that has separated, individual colonies.

- How many colonies are on this plate? \_\_\_\_\_ cfu
- What is the dilution for this plate? (*Example: 1:10, 1:100...*) \_\_\_\_\_
- What is the dilution factor for this plate? (*If plated 1:100, dilution factor is 100*): \_\_\_\_\_
- How many microliters were used to plate this specific plate? \_\_\_\_\_ ul

2. Calculate how many cfu/mL is in the dilution for this plate:

- General Equation:  $\frac{\# \text{ cfu on dilution plate}}{\# \text{ ul used to spread dilution plate}} \times \frac{1,000 \text{ ul}}{1 \text{ mL}} = \text{cfu/mL of dilution plate}$
- Show your work using the equation in 2a.

3. Using the value of cfu/mL of the dilution plate (Result 2b), calculate the cfu/mL in the original culture (neat concentration)

- General Equation:  $(\text{cfu/mL of dilution plate}) \times (\text{dilution factor}) = \text{cfu/mL in original culture}$
- Show your work using the equation in 3a.

Module 2 Documentation: Colony Forming Unit Calculation Record

<b>Position</b>	<b>Name</b>	<b>Initials</b>	<b>Date</b> Month Day Year Ex: 03242022
Calculations: Upstream Process Technician			
Check: QC Technician			
Final Sign Off: QA Technician			