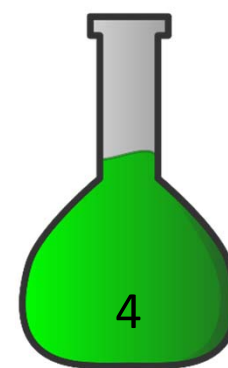
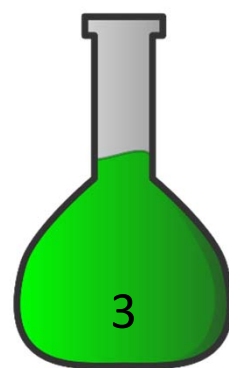


# Preparation of stocks solutions

Each student will

Prepare two stocks solution each with one analyte using volumetric flasks with a final concentration of 1 mg/mL



Student A

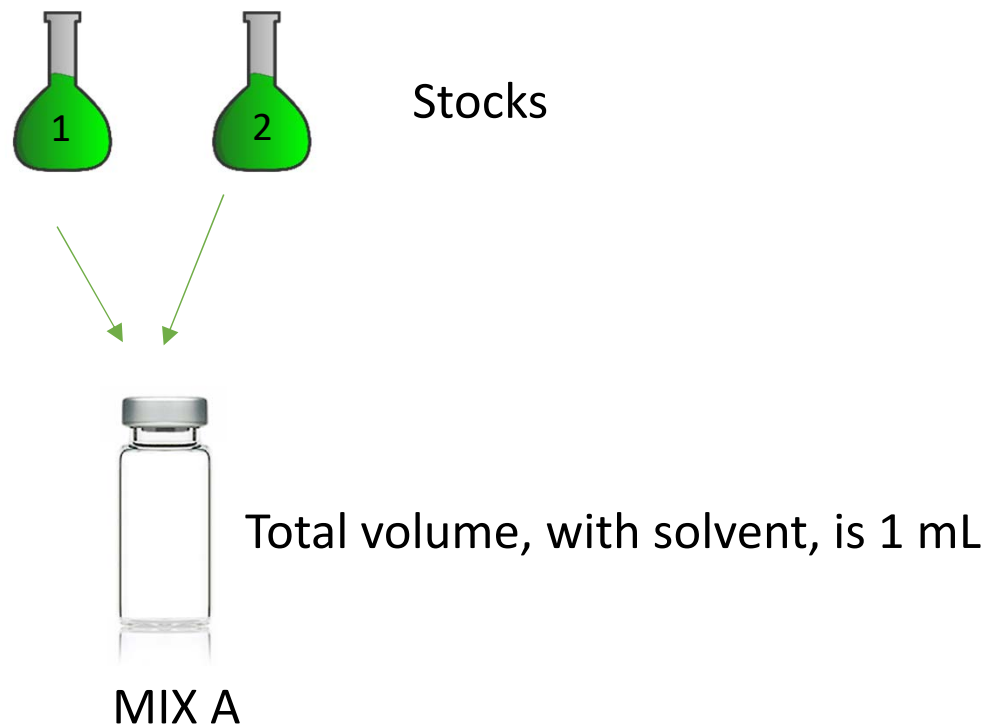
Student B

All samples must be labeled by XY-P#-S#  
students initials, page # in notebook and sample description on page, e.g, XY-01-S1

For instructions see videos under Chem 443 assignments section at <https://goo.gl/Wei4JX>

# Preparation of calibration standards

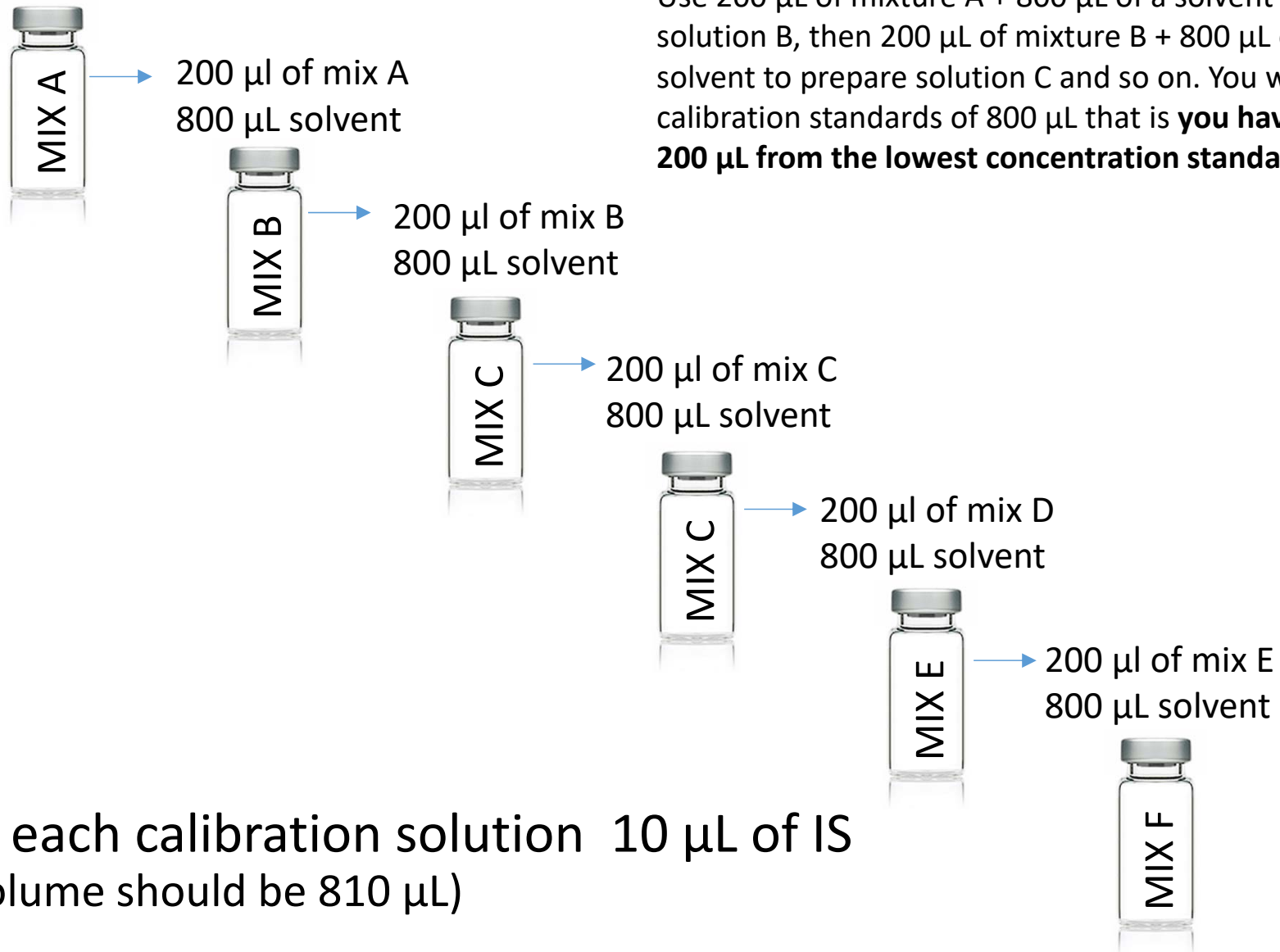
Mixture A consisting of all stocks, with final concentration of each analyte  $200 \mu\text{g}/\text{mL}$  in  $1 \text{ mL}$  of solvent



All samples must be labeled by XY-P#-S#  
students initials, page # in notebook and sample number on page, e.g., XY-35-mixA

# TASK Serial dilution of calibration standards

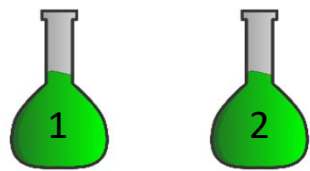
Prepare five additional calibration solutions of 5x fold serial dilutions



# Preparation of evaluation samples

Each student will

Prepare 5 evaluation samples



Prepare 3 solutions having each 20  $\mu\text{g}/\text{mL}$  of each analyte  
Add to each 10  $\mu\text{L}$  of IS  
(Final volume should be 810  $\mu\text{L}$ )

ES x 5



All samples must be labeled by XY-P#-S#  
students initials, page # in notebook and sample number on page, e.g., XY-35-ES1

# Analysis of unknown solution

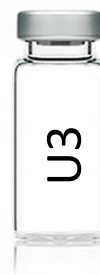
Each student will

Prepare 3 unknown samples



Unknown sample  
~3 mL

Take of unknown (800  $\mu\text{L}$ ) and add to each 10  $\mu\text{L}$  of IS  
(Final volume should be 810  $\mu\text{L}$ )



All samples must be labeled by XY-P#-S#  
students initials, page # in notebook and sample number on page, e.g., XY-35-U1