METHODS AND MATERIALS

PART 1: AR94 AQUEOUS CONCENTRATION ([AR94])



• Determine [AR94] that yields the greatest difference in maximum fluorescence intensity.



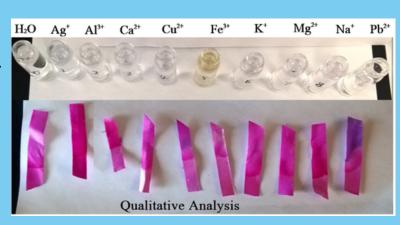
- Measure the fluorescence intensity for
 - Constant [AR94]
 - Increasing lead concentration



PART 3: SELECTIVITY AND SENSITIVITY

- Compare AR94 soaked filter paper strips dipped in
 - o dI water
 - same concentration of different metals
 - different concentrations of lead
- Take several fluorescence intensity measurements for [AR94] from part 1.







PART 4: COMPLEX STRUCTURE



- Vary mole fractions of AR94 and lead in aqueous solution.
- Measure the fluorescence intensity of each solution.