

Separating Ions

- What ions could be present in a solution if separate samples of it gave a precipitate when:
 - Either SO_4^{2-} or OH^- are added?
 - SO_4^{2-} is added, but none when OH^- is added?
- A solution contains Al^{3+} and Ag^+ . What compounds could be added, and in what order, to separate these ions?
- For the following, determine what compounds could be added, and in what order, to separate these ions?
 - Sr^{2+} , Ca^{2+} and Ag^+
 - Mg^{2+} , Pb^{2+} , and Zn^{2+}
 - Fe^{3+} , Ca^{2+} , Ag^+ and Be^{2+}
 - I^- , SO_4^{2-} , and OH^-