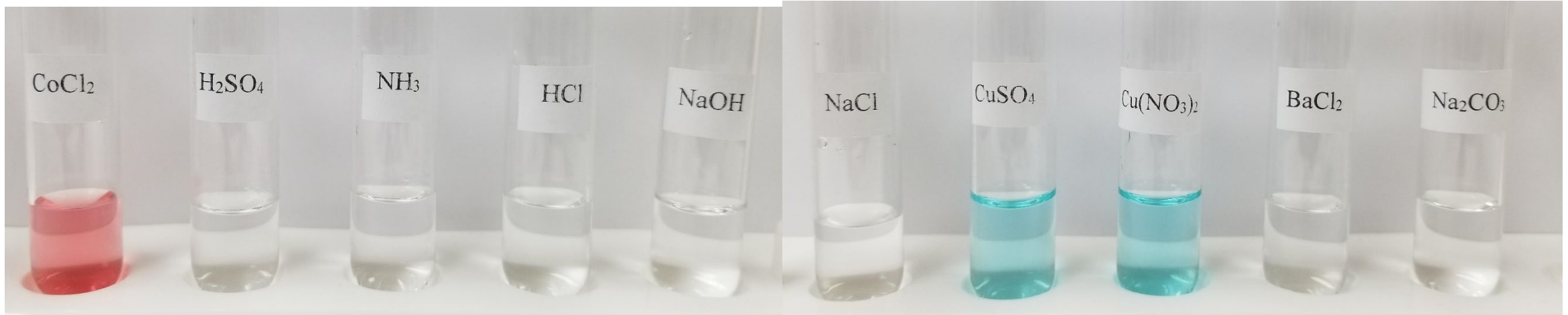


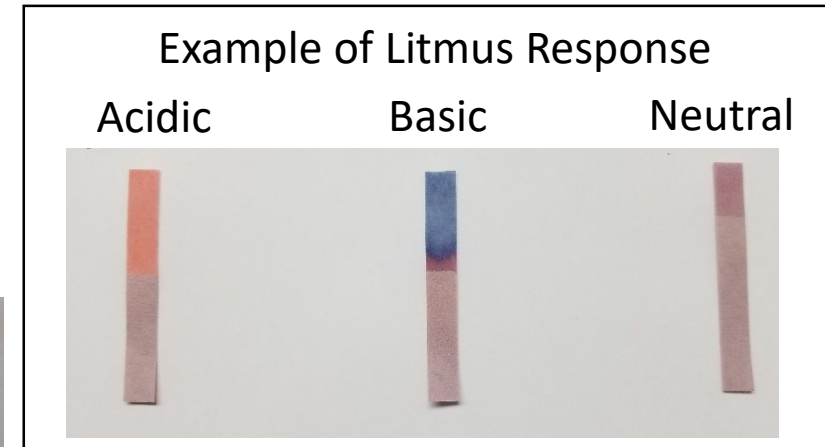
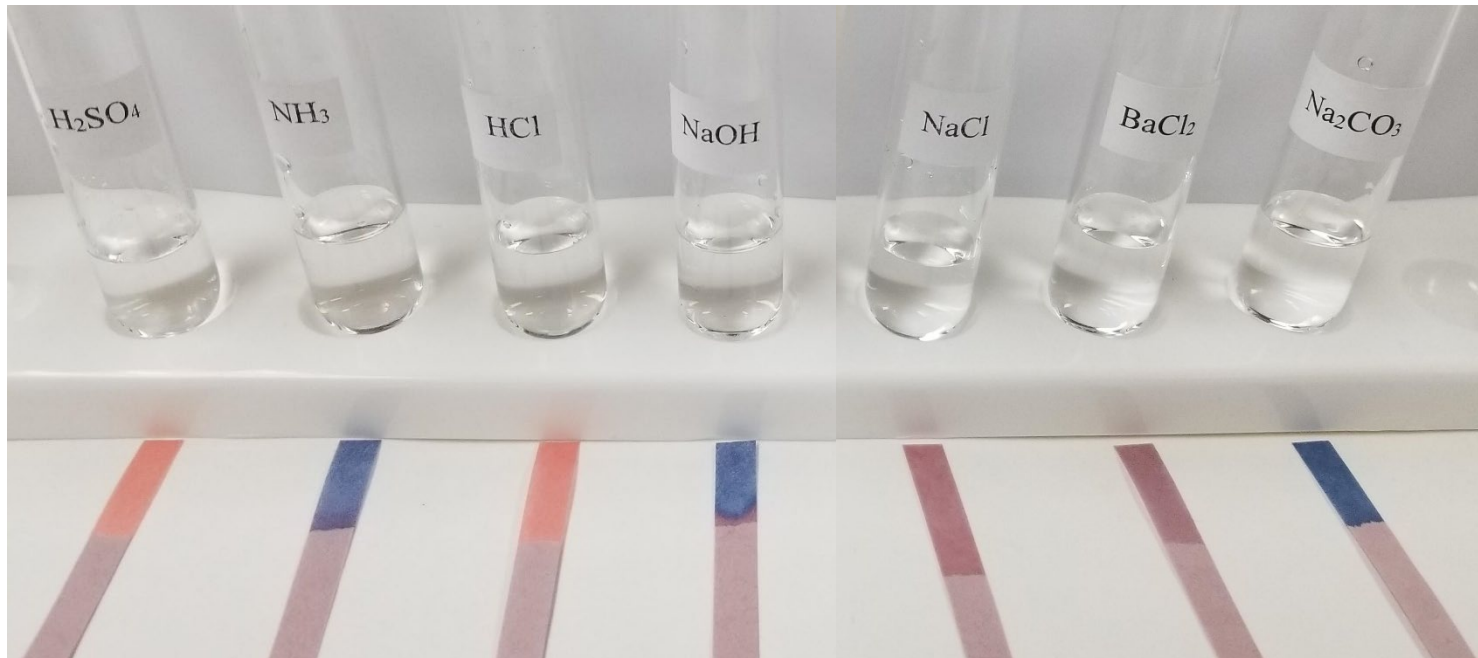
Part A—Observations of Known Solutions

1. Observe the color of each solution.



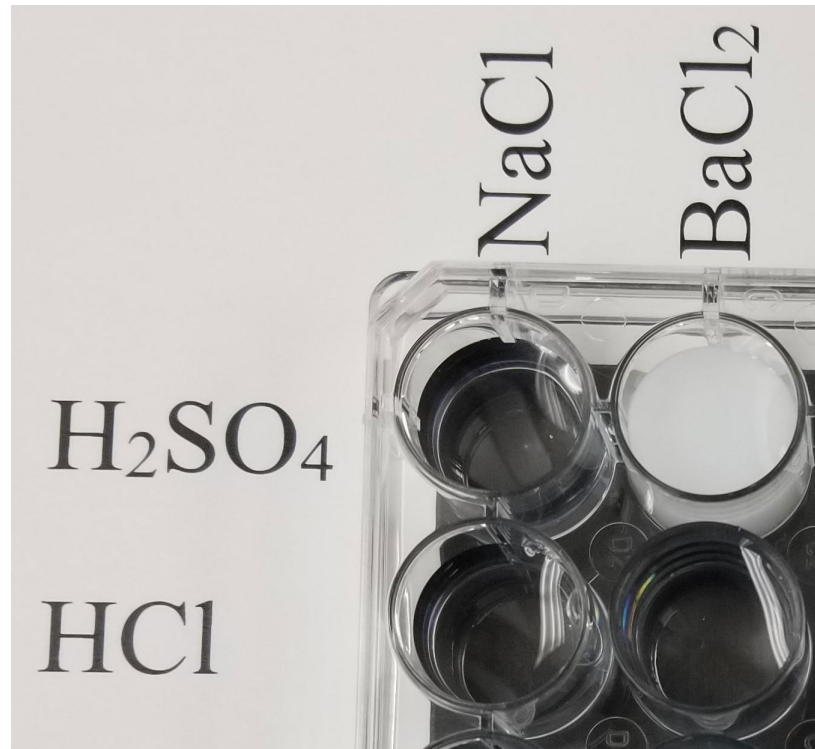
Part A—Observations of Known Solutions

2. Litmus test of colorless solutions.



Part A—Observations of Known Solutions

3. Reactions between the acidic and neutral solutions.



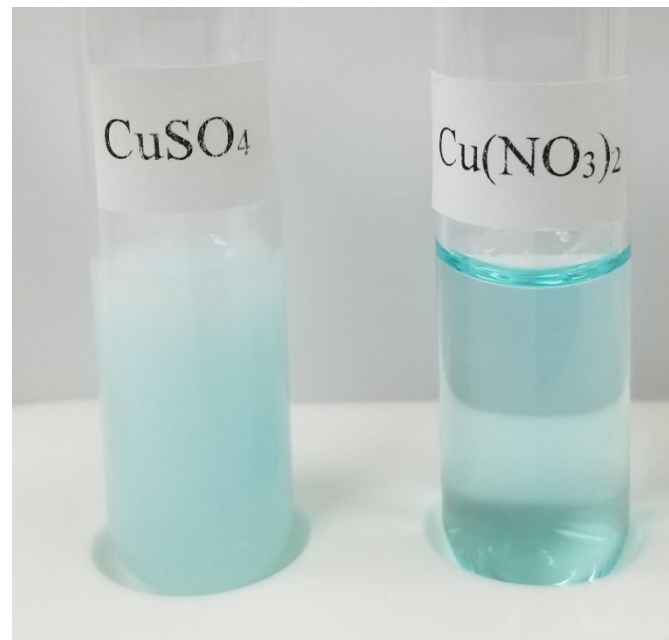
Part A—Observations of Known Solutions

4. Reaction of BaCl_2 with blue solutions.

Before BaCl_2 added



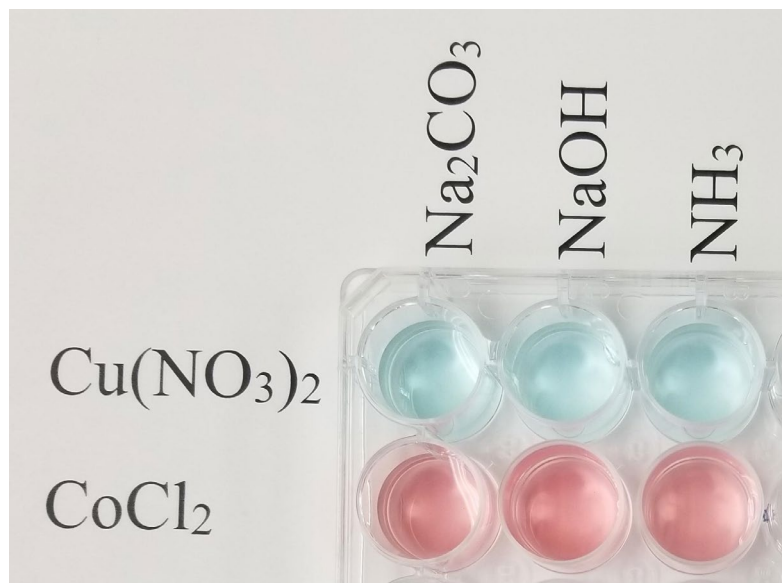
After BaCl_2 added



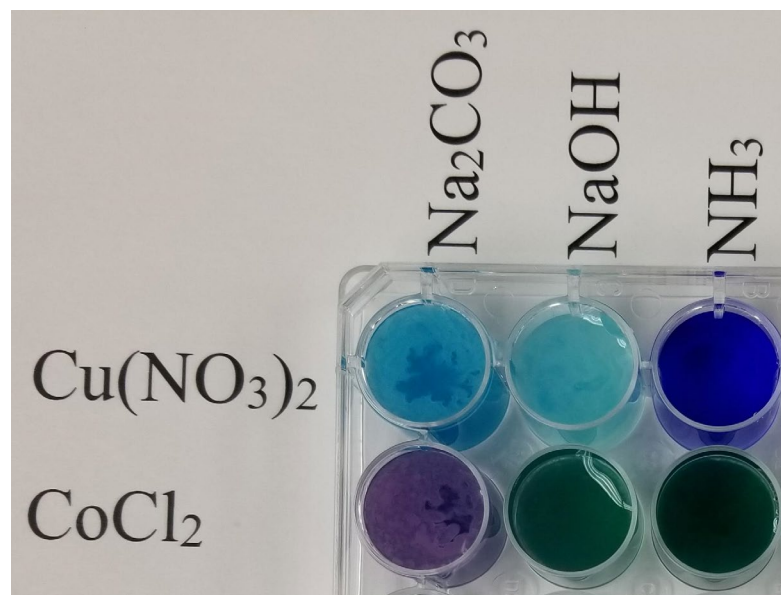
Part A—Observations of Known Solutions

5. Reaction of $\text{Cu}(\text{NO}_3)_2$ and CoCl_2 with basic solutions.

Before bases added

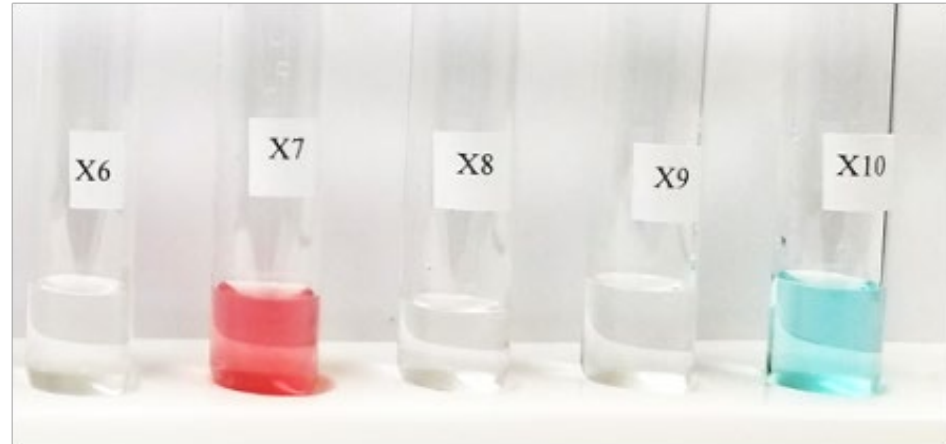
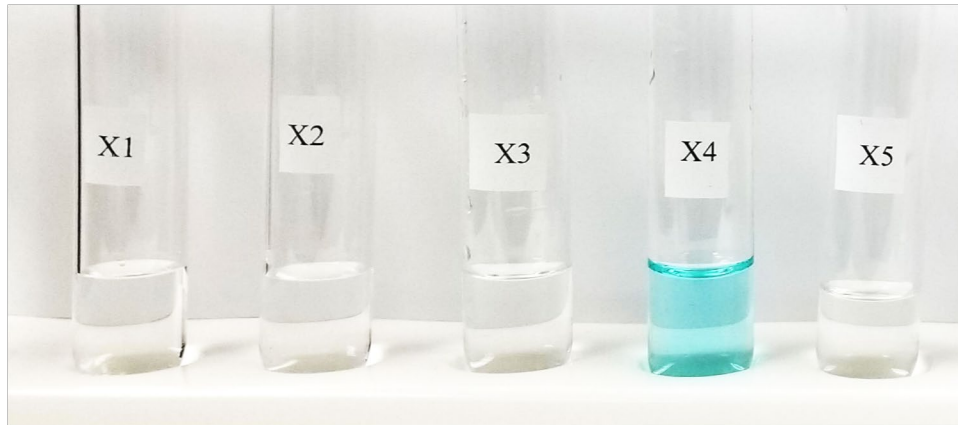


After bases added



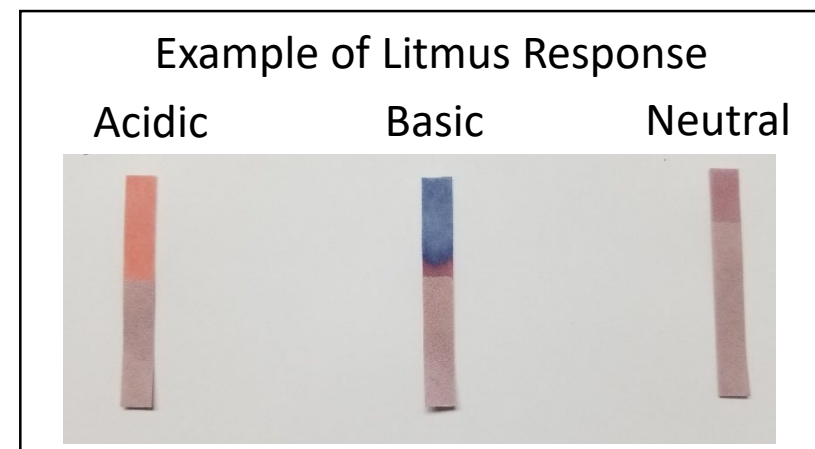
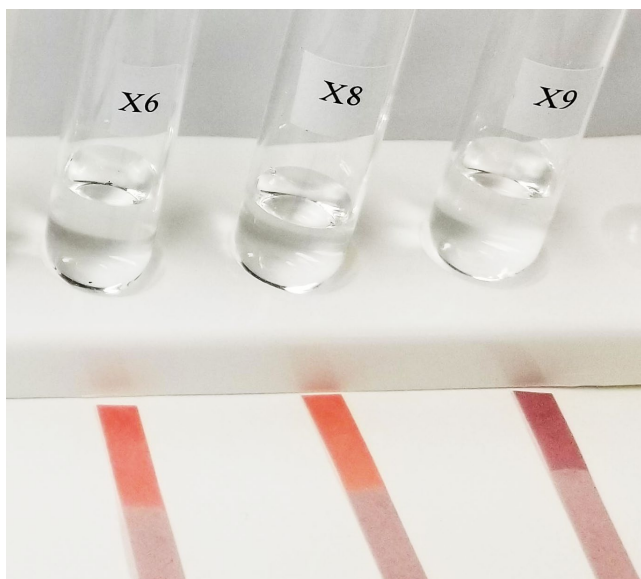
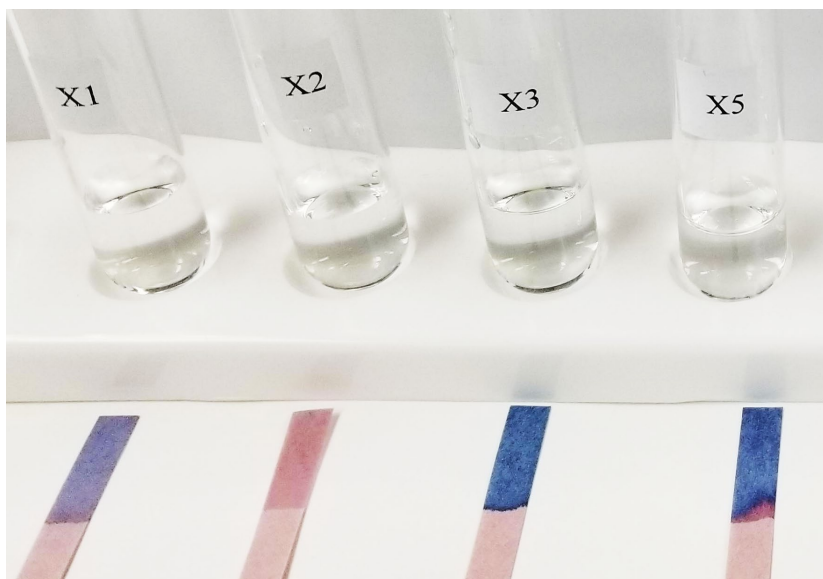
Part B—Observations of Unknowns

1. Observe the color of each solution.



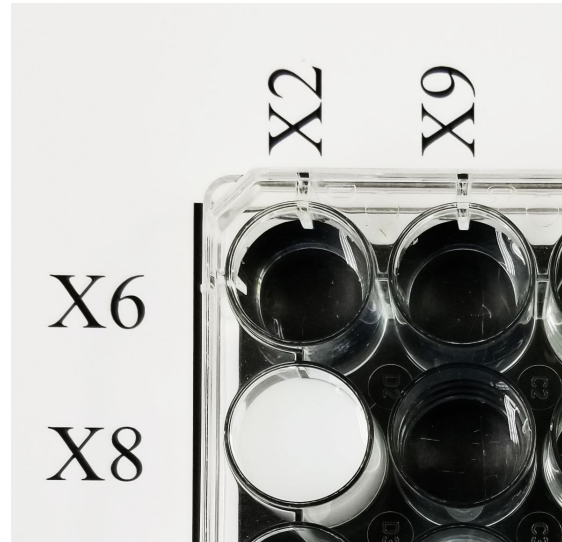
Part B—Observations of Unknowns

2. Litmus test of colorless solutions.



Part B—Observations of Unknowns

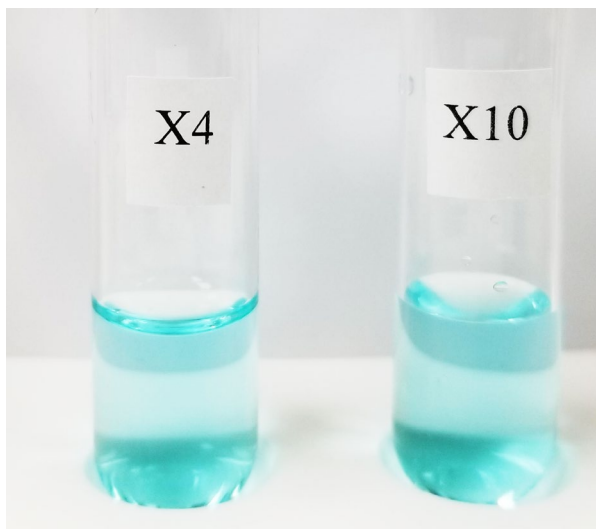
3. Reaction between the acidic and neutral solutions.



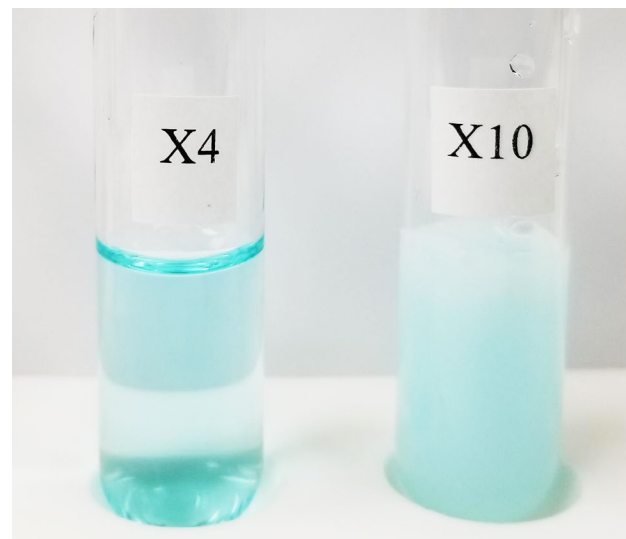
Part B—Observations of Unknowns

4. Reaction of BaCl_2 with blue solutions.

Before BaCl_2 added



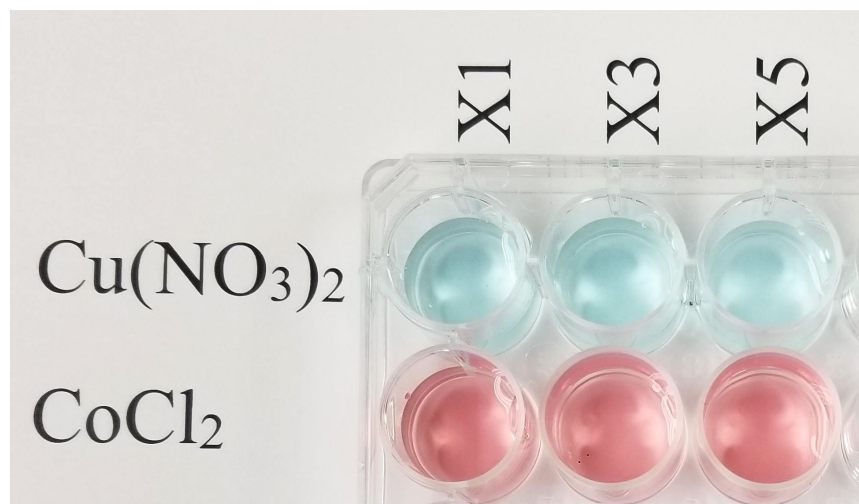
After BaCl_2 added



Part B—Observations of Unknowns

5. Reaction of $\text{Cu}(\text{NO}_3)_2$ and CoCl_2 with basic solutions.

Before bases added



After bases added

