

Double Displacement Reactions

Materials:

Barium chloride - BaCl_2

Iron (III) chloride - FeCl_3

Potassium sulfate - K_2SO_4

Sodium carbonate - Na_2CO_3

Copper sulfate - CuSO_4

Sodium hydroxide - NaOH

Sodium chloride - NaCl

Lead nitrate - $\text{Pb}(\text{NO}_3)_2$

Potassium Iodide - KI

Test tube rack with 6 test tubes

Procedure:

1. Obtain a test tube rack with 6 test tubes.
2. Place 6 drops of liquid 1 into the corresponding test tube.
3. Add 6 drops of liquid 2 to the same test tube.
4. Record your observations.
5. Continue steps 2 through 4 for test tubes 2-6.

Observation Table:

Test Tube	1	2	Observations:
A	BaCl_2	Na_2CO_3	
B	BaCl_2	K_2SO_4	
C	CuSO_4	NaOH	
D	FeCl_3	NaOH	
E	$\text{Pb}(\text{NO}_3)_2$	KI (3 drops)	
F	NaCl	$\text{Pb}(\text{NO}_3)_2$	

*Clean up:

Please carefully rinse out all test tubes and place them on your test tube rack upside down.

Please clean up any messes.

Questions: (Please answer under your data table)

1. Did any chemical reactions occur in this experiment?
2. How were you able to determine that a chemical reaction occurred?