Journal: Prove It!

The illustration shows the mixing of two colorless aqueous solutions (lead nitrate and potassium iodide) in a sealed flask to form a yellow precipitate (lead iodide) and a colorless solution (potassium nitrate).

- What is meant by the phrase, “conservation of mass”?

- How would you prove that mass is conserved in this reaction?

- The equation that represents this reaction is $Pb(NO_3)_{2\ (aq)} + 2\ KI_{\ (aq)} \rightarrow PbI_{2\ (s)} + 2\ KNO_{3\ (aq)}$. In what ways does this equation show conservation of mass?

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