Abstract:

The object of this experiment is to determine, whether the volume is conserved or not conserved. To come up with this resolution, we need to perform some measurements on both volume and mass using presion scientific tools. For measuring masses with high accuracy, we will use an analytic balance, as well as a volumetric glassware, to measure volume accurately. By knowing the density of the liquid in this experiment, we are then able to determine its volume. This is because density provides a link between mass and volume. This can be calculated through the equation: Density = mass / Volume. $D = \frac{m}{V}$

This equation could also be used to calculate volume by rearranging and manipulating it to the following equation: Volume = mass / Density. $V = \frac{m}{d}$

* could exclude a conclusion in abstract.

The following experiment will be divided into five parts:

1. To estimate whether liquid volumes are conserved.
2. Calibrate a 10-mL Volumetric Flask to determine its precise volume.
3. Calibrate a 5-mL Transfer Pipet to determine the precise volume it delivers.
4. Determine precisely the density of an Unknown liquid.
5. Quantitatively determine whether liquid volumes are conserved.

Introduction:

The following definitions were used within this experiment:

Conservation: The act of conserving or keeping from change or loss.
Density: Can be found by dividing mass by volume.