



← How to use this form

Certified Reagent Operation Form

First-year Chemistry

<input checked="" type="checkbox"/> Pipetting a Liquid <input checked="" type="checkbox"/> Mass of liquid transferred is measured on a balance and documented properly (assume a density of 1.00 g/mL) <input checked="" type="checkbox"/> All measured volumes are within $\pm 5\%$ with respect to the target volume <input checked="" type="checkbox"/> No liquid is spilled on the bench surface <input checked="" type="checkbox"/> No obvious errors are committed, particularly contamination	<input type="checkbox"/> Weighing a Solid <input type="checkbox"/> Measured mass of solid is documented properly <input type="checkbox"/> No solid is spilled in the balance <input type="checkbox"/> Solid is transferred <i>only</i> off the balance and spillage is minimal <input type="checkbox"/> All measured masses are within $\pm 5\%$ with respect to the target mass (or, all masses round to the target mass in the protocol) <input type="checkbox"/> No obvious errors are committed
<input type="checkbox"/> Volumetric Preparation of a Solution <input type="checkbox"/> Stock solution or solid solute is transferred to volumetric flask without spillage <input type="checkbox"/> Solvent is added to the volumetric flask to bring the solution volume <i>exactly</i> to the mark. Reject the operation if the bottom of the meniscus is not sitting on the mark! <input type="checkbox"/> Flask is capped and inverted three times to mix the solution <input type="checkbox"/> Completed solution is free of debris and homogeneous	<input checked="" type="checkbox"/> Obtaining a Visible Absorption Spectrum <input checked="" type="checkbox"/> Deionized water blank is obtained <input checked="" type="checkbox"/> Cuvette is filled at least 2/3 full with the solution to be analyzed <input checked="" type="checkbox"/> Cuvette is appropriately aligned with the incident light beam <input checked="" type="checkbox"/> Wavelength of maximum absorbance (with units) and maximum absorbance value are appropriately documented <input checked="" type="checkbox"/> Spectrometer is returned to the LabQuest box at the end of lab
<input type="checkbox"/> Titration to an Endpoint <input type="checkbox"/> Buret is filled and titrant is delivered without spilling <input type="checkbox"/> Initial and final volumes are recorded to appropriate precision <input type="checkbox"/> Titration is halted <i>exactly</i> at the endpoint (i.e. the endpoint is not overshoot) <input type="checkbox"/> Re-filling the buret with titrant is not necessary	<input type="checkbox"/> Heating a Solid with a Bunsen Burner <input type="checkbox"/> Apparatus includes crucible with lid, clay triangle, ring stand and ring, Bunsen burner, and tubing <input type="checkbox"/> Initial and final masses are recorded to appropriate precision <input type="checkbox"/> Bunsen burner is set to produce a flame of moderate size with a clearly visible inner blue cone <input type="checkbox"/> Crucible is positioned at the tip of the inner blue cone of the flame

Operator's Name

Rodra Gael

Signature

Observer's Name

Ahtziri Rosales Ramirez

Signature

TA's Signature

Today's Date

9/11/23

Submission Instructions. The student performing the operation should scan and submit completed form(s) for the current experiment using the Certified Reagent Operations assignment for the current experiment on Canvas.