

Report for Laboratory Exercise #3

Reflections on In-lab Notes

Using Microsoft Word, students are to **insert responses in all yellow highlighted areas**. It is recommended that the report be completed without changing font size, column width, row width, margins, and highlights. The completed report must be uploaded to the CHEM 101 Brightspace site as a .pdf file by the due date posted on Brightspace. All answers must be the student's own work without assistance from others. Only reports which are completed using the template will be marked.

Ex. #3 is an exercise that provides an opportunity for students to reflect on the importance and quality of accurate and complete in-lab notes. See page 7 of the 202309 CHEM 101 lab manual.

Below are the in-lab notes that you are to critique. Use the Ex. #3 Report questions below as a guide.

The Report is to be completed and submitted by the due time indicated on Brightspace.

In-lab notes

Collected approximately 25.00mL of Iron Nitrate in 100mL beaker, measuring 5.0mL using a graduated cylinder into 4 different volumetric flasks. Then obtained 30.0mL of the stock salicylic acid solution. Transferred 1.0 mL of salicylic acid solution to the one volumetric flask than filled with distilled water. Then added 5.0mL to another flask. Ten added 10.0mL of the solution to another flask. Added water to another volumetric flask.

Measured out 0.3mL of the acne cleanser using the micropipette into another volumetric flask and then added 5.0mL of the Iron nitrate solution using a 5.0mL pipette. Topped up with water.

All solutions were purple

Absorbances of solutions using a spectrophotometer

The absorbance of each solution was: a) 1.329. b) 0.109 c) 0.578 d) 0.001 e) 1.256, 1.101, 1.213 f) 1.345

Name: Lab Section: B12 Quad: Date:

1. Do the in-lab notes provide enough information to successfully repeat and complete the experiment? (yes/no?)

2. What criteria did you use to determine whether or not the experiment could be successfully repeated? (max. 4 lines)

3. Provide examples from the in-lab notes that were helpful in recreating the experiment. (max. 3 lines)

4. Provide examples from the in-lab notes where more detail is required that would have aided in repeating the experiment. What extra information is required? Consider all procedures, data and observations. (max. 6 lines)

5. What are your learnings from this exercise concerning the quality of note taking? How will you implement your learnings when you take notes in the future? (be specific) (max. 6 lines)

Marks Summary	max.
Q. 1	3
Q. 2, 3 each worth 2 mark	4
Q. 4 & 5 , each worth 1.5 mark	3
Total mark	10