

➤ **Results**

pH	Note		Absorbance
	Dilution 1	Dilution 2	
3			
4			
5			
6			
7.4			
8.2			

➤ **Calculations:**

Calibration Curve Equation

$Y = 0.0407 X + 0.0199$, Knowing that the concentration (X) is in (µg/ml)

pH-Solubility Profile:

pH	Absorbance	DF 1	DF 2	Over all DF	Concentration µg/ml	Solubility µg/ml	Solubility mg/ml
3							
4							
5							
6							
7.4							
8.2							

- Insert Excel Sheets (Charts) of : Effect of pH on Ibuprofen Solubility Profile.

Attach these paper to your report IMMEDIATELY after this page of the report.

➤ **Discussion:**

Experiment number:

Continued from page number:

Student Name:

➤ **Part A: Buffer preparation**

Show your detailed calculation required to prepare a buffer solution with the following properties: volume 500 ml, Concentration = 0.100 Molar

Buffer: _____ **PH:** _____

➤ **Part B: pH-Solubility Profile:**

Solubility (mg% w/v): (I choose sample at pH=)

NB.: Each student should show different example from other group members

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