Kinetic hydrolysis of aspirin

➢ ***Objective/s:***

➢ ***Formula:*** *(Table)*

Formula Number	Ingredients	Quantities

➢ ***Method:***

(This section should contain any calculations related to prior experiment preparation, if none please write NA and close it)

➢ ***Results:***

Time (minute)	Absorbance
10	
20	
30	

➢ ***Calculation:***

- **Calibration Curve Equation**
  *Y = 426 X , Knowing that the concentration (X) is in (*mole/L = M)

Time (minute)	Absorbance	Hydrolyzed aspirin Concentration (M)	Initial aspirin Concentration $[A]_0$ (M)	Remained Aspirin concentration $[A]_t$ (M)	Ln $[A]_t$
10					
20					
30					

- **Insert Excel Sheets (Charts) of:**
  1. **$[A]_t$ vs. time**
  2. **Ln $[A]_t$ vs. time**

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

➢ ***Discussion:***

- **What is the reaction order of aspirin hydrolysis? Explain your answer**

- **Determine the rate constant K of aspirin hydrolysis? Show your calculation**

- **Calculate the half-life $t_{0.5}$ of aspirin and describe what does it mean**

➢ ***Conclusion:***

(here conclude about: the order of aspirin hydrolysis)

Experiment Report Workload Distribution Table

Coordinator for Current Experiment[1]:

Section[2]	Student Name[3]	Percentage of the Performed workload[4]

[1]Mention the name of the student/ group member who did arrange the work related to the current experiment group report/work management.
[2]Section or part of the group report
[3]Mention the name of student/the group member who took responsibility of the specified group report section
[4]Relative to the whole workload used to prepare the current group report.

Notes: