

Report Guidelines Chemistry 101

Title – Label the title of the experiment in bold print and in upper case. The Authors should follow the title and then the college.

Example:

Protein Isolation and Purification Assay

First Name Last Name*, Lab Partner (If any)

Department of Chemistry, California Institute of Technology

Abstract – In a few sentences briefly state the purpose of the experiment, the methods used, and a summary of the results obtained. (2 – 5 sentences)

Example:

Enzyme A is easily isolated from the source cell upon lyses with reagent X. The protein was then isolated by gel filtration and purified by HPLC. The protein was collected in high yields and retained 80% of its enzyme activity.

Introduction – The introduction should give a brief background on the subject and should clearly state the goal of the experiment. A balance chemical reaction showing the chemical structures should be included. (1 page maximum)

Procedure – Only report the necessary steps for the procedure. The procedure should be written in third person past-tense.

Example:

Wrong – We added 2 grams of salt to the mixture and then we stirred for 10 minutes.

Correct – To the mixture, 2 grams of salt was added and then stirred for 10 minutes.

Results – This includes the raw data collected during the experiment and the calculations.

- Data – The data should be well organized and should include units. Data tables should be labeled at the top of the table. Plots (graphs) should be labeled at the bottom of the plot.
- Calculations – Show equations used for calculations.
- For synthesis reactions, Theoretical Yields and % Yields should be included.

Example:

Table 1. Assay Results.

Reagent	Activity	Purity
GRX	77 %	82%
XXX	45%	50%

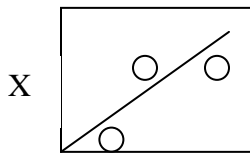


Figure 1. Plot

Discussion – A brief summary of the experiment and the accuracy/precision of the results. Were the stated goals of the experiment obtained? Any possible sources of error? (2 – 5 sentences)

References - All published resources should be listed at the end. (Lab manual and websites included)

Example

Author, “Title”, publisher and year (if known).