

Abstract (1)

The abstract should concisely tell you the results of the experiment and why they are important.

For experiment 1 include:

The wavelength of maximum absorbance of the high and low pH forms.

The calculated pKa for PNP.

The concentration of your unknown.

Introduction (1)

Background material

Experimental Procedures(2)

Sufficient detail should be included so that a trained biochemist (not necessarily a naive student) can reproduce your results. Note instances where your techniques differed from the protocols.

Results (3)

Tables and figures that concisely present your findings

For experiment 1 include:

2-1, 2. The absorbance spectra as a function of pH

A graph of A₄₀₀ vs pH.

2-3. A graph of absorbance vs standard concentration

draw a least-squares line through the standard curve

and a horizontal line indicating the absorbance of your unknown.

2-4. A table containing the following columns

target pH, solution volumes, absorbance readings, estimated pH from PNP abs, pH meter reading

The results should also be presented in text form, the tables and figures should be explained. Include answers to questions asked in the text that are directly answered by your data.

Discussion (2)

Insights into what may have gone wrong, explanations of surprising results, interpretations of significance data.

Include answers to questions asked in the text that are more speculative.

References (1)