Although there are many experiments in the literature that incorporate external standards, the method of standard additions, or internal standards, the issue of choosing a method standardization is not the experiment’s focus. One experiment designed to consider the issue of selecting a method of standardization is given here.


In addition to the texts listed as suggested readings in Chapter 4, the following text provide additional details on linear regression.


The following articles providing more details about linear regression.


Useful papers providing additional details on the method of standard additions are gathered here.

- Kelly, W. R.; MacDonald, B. S.; Guthrie “Gravimetric Approach to the Standard Addition Method in Instrumental
Approaches that combine a standard addition with an internal standard are described in the following paper.


The following papers discusses the importance of weighting experimental data when use linear regression.

- Analytical Methods Committee “Why are we weighting?” AMC Technical Brief, June 2007.

Algorithms for performing a linear regression with errors in both $X$ and $Y$ are discussed in the following papers. Also included here are papers that address the difficulty of using linear regression to compare two analytical methods.


Outliers present a problem for a linear regression analysis. The following papers discuss the use of robust linear regression techniques.


The following papers discusses some of the problems with using linear regression to analyze data that has been mathematically transformed into a linear form, as well as alternative methods of evaluating curvilinear data.

- Lieb, S. G. “Simplex Method of Nonlinear Least-Squares - A Logical Complementary Method to Linear Least-


More information on multivariate and multiple regression can be found in the following papers.


An additional discussion on method blanks, including the use of the total Youden blank, is found in the following papers.


There are a variety of computational packages for completing linear regression analyses. These papers provide details on their use in a variety of contexts.


