

Determining the precision of an HPLC method – Tips & Suggestions

The precision is determined by using different levels of analyte concentrations (the same concentration levels taken in the accuracy study), prepared from independent stock solutions and analyzed (n=10). Inter-day, intra-day and interinstrument variation should be studied to determine the intermediate precision of the proposed analytical methods.

Different levels of analyte concentrations in triplicates should be prepared three different times in a day and studied for intra-day variation. The same procedure should be followed for three different days in order to study the inter-day variation (n=10). One set of different levels of the concentrations should be reanalyzed using another HPLC system, by proposed methods to study inter-instrument variation (n=10).

The percent relative standard deviation (RSD %) of the predicted concentrations from the regression equation is taken as precision.



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