

# Preparative HPLC Troubleshooting Guide

Your guide to solving common problems and staying productive

Agilent  
InfinityLab

## Places to start:

### Where:

- Check solvent compatibility for your application
- Check initial peak retention

### Problems with your system:

- Impact performance and retention times
- Change in peak shape and/or change in retention times
- Change in peak height and/or change in peak shape
- Change in peak retention times

### Body parts:

- Impact response and peak profile when moving the detector
- Effect on peak width
- Effect on the composition of your separation



## Maintenance:

Agilent InfinityLab systems are designed for rugged reliability and feature high-quality, electro-optical detection. The most efficient way to ensure high system performance is to maintain it properly. Follow these tips:

- Replace filters as recommended
- Check pump and detector filter integrity
- Check pump and detector pressure to make sure components are tight and secure

## Sample:



## Flow system:



## Detector:



## Sample preparation:



## Flow system:



## Detector:



## Sample:



## Flow system:



## Detector:



## Sample preparation:



## Flow system:



## Detector:



## Sample:



## Flow system:



## Detector:



## Sample preparation:



## Flow system:



## Detector:



## Sample:



## Flow system:



## Detector:



## Sample preparation:



## Flow system:



## Detector:



# Millenium Hplc Software Manual

**Institute of Brewing (Great Britain)**

## **Millenium Hplc Software Manual:**

*Flavoprotein Protocols* Steven K. Chapman, Graeme A. Reid, 2008-02-03 As a scientist with an interest in proteins you will at some time in your career isolate an enzyme that turns out to be yellow or perhaps you already have Alternatively you may identify a polypeptide sequence that is related to known flavin containing proteins This may or may not be your first encounter with flavoproteins However even if you are an old hand in the field you may not have exploited the full range of experimental approaches applicable to the study of flavoproteins We hope that Flavoprotein Protocols will encourage you to do so In this volume we have sought to bring together a range of experimental methods of value to researchers with an interest in flavoproteins whether or not these researchers have experience in this area A broad range of techniques from the everyday to the more specialized is described by scientists who are experts in their fields and who have extensive practical experience with flavoproteins The wide range of approaches from wet chemistry to dry computation has as a consequence demanded a range of formats Where appropriate particularly for analytical methods the protocol described is laid out in easy to follow steps In other cases e.g. the more advanced spectroscopies and computational methods it is far more apt to describe the general approach and relevance of the methods We hope this wide ranging approach will sow the seeds of many future collaborations between laboratories and further our knowledge and understanding of how flavoproteins work Journal of Chromatography, 2003 Handbook of Food Science, Technology, and Engineering - 4 Volume Set Y. H. Hui, Frank Sherkat, 2005-12-19 Advances in food science technology and engineering are occurring at such a rapid rate that obtaining current detailed information is challenging at best While almost everyone engaged in these disciplines has accumulated a vast variety of data over time an organized comprehensive resource containing this data would be invaluable to have

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*Maintaining and Troubleshooting HPLC Systems* Dennis J. Runser, 1981-05-06 Provides users of HPLC equipment with a comprehensive text for troubleshooting and maintaining HPLC systems. Describes how the chromatographer can maintain the HPLC system in operating condition what to look for and do to prevent and solve HPLC problems and what can and should be done before calling a service representative. Organized into chapters which basically represent the typical components of the HPLC system with each chapter describing a basic element of the HPLC system in terms of maintenance and solving system problems. Arranged as a guide and working manual to help the chromatographer reduce instrument downtime allowing for more efficiency and cost effectiveness in the HPLC laboratory. **High-Temperature Liquid Chromatography** Thorsten Teutenberg, 2010-06-03 High temperature liquid chromatography has attracted much interest in recent years but has not yet recognized its full potential in the chromatographic community. There is a widespread reluctance in industry to use temperature to speed up the separation process influence the selectivity of a separation or implement novel detection techniques. However the technology has now matured and could revolutionize chromatography as we see it today. Better equipment such as heating systems able to generate faster heating rates is becoming more readily available. Also columns based on silica gel which can withstand higher temperatures for an extended period are now being introduced. Nevertheless further technological and methodical efforts are needed to establish the method in a regulated environment like the pharmaceutical industry. This is the only text to cover all the practical aspects as well as the underlying theoretical principles of setting up an HPLC system for high temperature operation. It is not intended solely for academics but will also benefit the researcher interested in more practical considerations. The author is a recognized expert and has conducted several studies.

with partners from industry to validate the method. Many real examples from these studies have been included in the book. The aim is to support practitioners in the creation of their own protocols without the need to rely solely on trial and error. The book starts with a brief definition of high temperature liquid chromatography before going on to cover system set up, the heating system, mobile phase considerations, suitable stationary phases, method development using temperature programming, analyte stability and special hyphenation techniques using superheated water as a mobile phase. In each chapter, experimental data is used to illustrate the main statements and the advantages over conventional HPLC are evaluated. The book concludes with a critical outlook on further developments and applications underlining the necessary advances needed to make high temperature HPLC more robust. *Manual for HPLC* Ramu BANDAMEEDI, Saibaba SV, Chittela BABU, 2018-02. This text is intended to be a guide for both the novice to preparative HPLC and as an aid to the chemical engineer planning to introduce this black art into the industrial environment. The first question to ask is What is preparative? To many, the isolation of a few grams of an extremely potent molecule may be considered as large-scale. In some instances, 50 g of a vaccine will supply the annual market for a particular disease state. In more traditional drug therapies, a few tonnes may be more typical. The second question to be answered is What is HPLC? This abbreviation is often derived from the term High Performance Liquid Chromatography, though the term High Pressure Liquid Chromatography is often preferred, since high performance can also be achieved at low pressure. Just to confuse the issue is this the pressure created by the resistance to liquid flow through the column or the pressure at which the column is packed? *MAINTAINING AND TROUBLESHOOTING HPLC SYSTEM : A USER'S GUIDE*. Dennis J. Runser, 1981.

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