

EXPERIMENT 6

HIGH PERFORMANCE LIQUID CHROMATOGRAPHY/HIGH PRESSURE LIQUID CHROMATOGRAPHY (HPLC)

THEORY/ BACKGROUND

In recent years the technology used in chromatographic analysis has greatly improved. Advances in this area have led to the common use of High Performance Liquid Chromatography, a laboratory technique that allows for the very efficient separation of small amounts of the components of a mixture. The technique has essentially the same operational basis as liquid chromatography, but HPLC allows for far better separation of the components of a mixture. The column in an HPLC instrument contains tiny particles of only about 5 μm diameter, ensuring a very large surface area to which molecules may adsorb. These particles comprise the *stationary phase* of the chromatographic system. Because these tiny particles are so tightly packed, the *mobile phase* solvent must be forced through the column under very high pressure. A detector and a computer are connected to the HPLC instrument in order to signal when eluents are coming off the column and fractions should be collected. The diagram in Figure 6 illustrates the main components of an HPLC instrument.

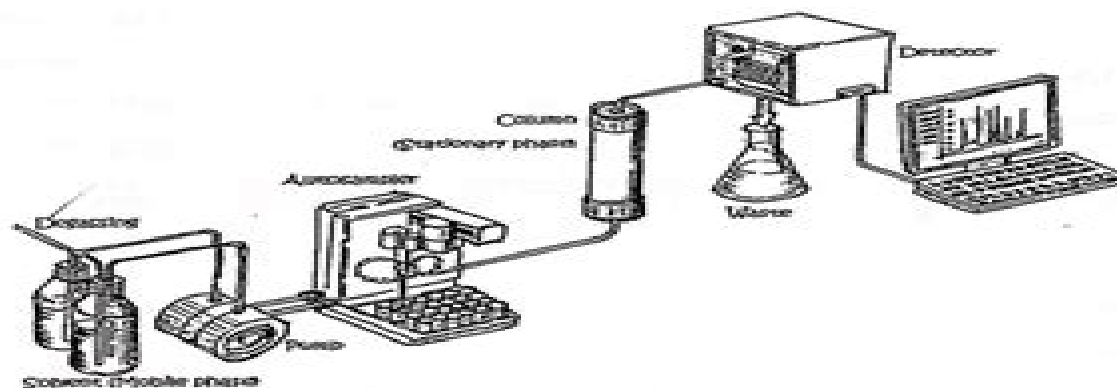


Figure 6.1: Schematic Diagram of a High Performance/ Pressure Liquid Chromatography.

Identification of samples is carried out by comparison of their retention times. A known amount of a known compound (a standard) is injected, the retention time is recorded and the area under the peak can be calculated. A sample containing the same analyte is then injected under the same experimental parameters. If the analyte is the same compound as the standard, then they should give identical retention times. The ratio of peak areas should give the amounts of the components present.

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Biochemistry Laboratory Manual Mr. Rohit Manglik, 2024-07-30 Hands on manual with detailed protocols and experiments for conducting fundamental and advanced biochemistry lab work *Food Analysis Laboratory Manual* S. Suzanne Nielsen, 2010-03-20 This second edition laboratory manual was written to accompany Food Analysis Fourth Edition ISBN 978 1 4419 1477 4 by the same author The 21 laboratory exercises in the manual cover 20 of the 32 chapters in the textbook Many of the laboratory exercises have multiple sections to cover several methods of analysis for a particular food component of characteristic Most of the laboratory exercises include the following introduction reading assignment objective principle of method chemicals reagents precautions and waste disposal supplies equipment procedure data and calculations questions and references This laboratory manual is ideal for the laboratory portion of undergraduate courses in food analysis

Biochemistry Laboratory Manual For Undergraduates Timea Gerczei Fernandez, Scott Pattison, 2015-03-11 Biochemistry laboratory manual for undergraduates an inquiry based approach by Gerczei and Pattison is the first textbook on the market that uses a highly relevant model antibiotic resistance to teach seminal topics of biochemistry and molecular biology while incorporating the blossoming field of bioinformatics The novelty of this manual is the incorporation of a student driven real real life research project into the undergraduate curriculum Since students test their own mutant design even the most experienced students remain engaged with the process while the less experienced ones get their first taste of biochemistry research Inclusion of a research project does not entail a limitation this manual includes all classic biochemistry techniques such as HPLC or enzyme kinetics and is complete with numerous problem sets relating to each topic *Nielsen's Food Analysis Laboratory Manual* B. Pam Ismail, S. Suzanne Nielsen, 2024-06-20 This fourth edition laboratory manual was written to accompany Nielsen's Food Analysis Sixth Edition by the same authors New to this fourth edition of the laboratory manual are three new chapters that complement both the textbook chapters and the laboratory exercises The book again contains four introductory chapters that help prepare students for doing food analysis laboratory exercises The 26 laboratory exercises in the manual cover 24 of the 35 chapters in the textbook Many of the laboratory exercises have multiple sections to cover several methods of analysis for a particular food component or characteristic Most of the laboratory exercises include the following background reading assignment objective principle of method chemicals reagents precautions and waste disposal supplies equipment procedure data and calculations questions and references This laboratory manual is ideal for the laboratory portion of undergraduate courses in food analysis The Science of Ethanol Walter E. Goldstein, 2016-12-08 This book covers all facets involving the production and use of ethanol Topics include the optimization of raw materials energy capital process model based computer control and human resources to produce ethanol It compares and contrasts processes to prepare ethanol using biotechnology processes to prepare ethanol from chemical synthesis Matters of optimization of ethanol use as fuel fuel components are addressed based on thermodynamics kinetics and usage It

also discusses pollutants produced from ethanol and mixtures containing ethanol the status of ways to control these pollutants and what can be done to minimize the harm to the earth's ecosystems due to ethanol and gasoline reactions

HPLC Marvin C. McMaster, 2006-12-18 This Second Edition of the classic handbook details how to set up an HPLC system that capitalizes on the latest innovations It covers new techniques in high temperature micro flow and ultra fast chromatography the linking of an HPLC to a mass spectrometer and more Complete appendices and supplementary material online this guide has everything chromatographers need to know to confidently separate identify purify and quantify compounds

The Organic Chem Lab Survival Manual James W. Zubrick, 2020-02-05 Teaches students the basic techniques and equipment of the organic chemistry lab the updated new edition of the popular hands on guide The Organic Chem Lab Survival Manual helps students understand the basic techniques essential safety protocols and the standard instrumentation necessary for success in the laboratory Author James W Zubrick has been assisting students navigate organic chemistry labs for more than three decades explaining how to set up the laboratory make accurate measurements and perform safe and meaningful experiments This practical guide covers every essential area of lab knowledge from keeping detailed notes and interpreting handbooks to using equipment for chromatography and infrared spectroscopy Now in its eleventh edition this guide has been thoroughly updated to cover current laboratory practices instruments and techniques Focusing primarily on macroscale equipment and experiments chapters cover microscale jointware drying agents recrystallization distillation nuclear magnetic resonance and much more This popular textbook Familiarizes students with common lab instruments Provides guidance on basic lab skills and procedures Includes easy to follow diagrams and illustrations of lab experiments Features practical exercises and activities at the end of each chapter Provides real world examples of lab notes and instrument manuals The Organic Chem Lab Survival Manual A Student's Guide to Techniques 11th Edition is an essential resource for students new to the laboratory environment as well as those more experienced seeking to refresh their knowledge

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Purification of Laboratory Chemicals W.L.F. Armarego, Christina Chai, 2009-07-23 A best seller since 1966 Purification of Laboratory Chemicals keeps engineers scientists chemists biochemists and students up to date with the purification of the chemical reagents with which they work the processes for their purification and guides reader on critical safety and hazards for the safe handling of chemicals and processes The Sixth Edition is updated and provides expanded coverage of the latest chemical products and processing techniques safety and hazards The book has been reorganised and is now fully indexed by CAS Registry Numbers Compounds are now grouped to make navigation easier and literature references for all substances and techniques have been added and ambiguous alternate names and cross references have been removed The only comprehensive chemical purification reference a market leader since 1966 Amarego delivers essential information for research and industrial chemists pharmacists and engineers it will be the most commonly used reference book in any chemical or biochemical laboratory MDPI Journal An essential lab practice and procedures manual Improves efficiency results and safety by providing critical information for day to day lab and processing work Improved clear organization and new indexing delivers accurate reliable information on processes and techniques of purification along with detailed physical properties The Sixth Edition has been reorganised and is fully indexed by CAS Registry Numbers compounds are now grouped to make navigation easier literature references for all substances and techniques have been added ambiguous alternate names and cross references removed new chemical products and processing techniques are covered hazards and safety remain central to the book

Practical Chemistry Teshome Aduugna, Girma Salale, 2024-12-30 This laboratory manual offers a broad introduction to practical instrumental analysis The practical activities include experiments for thin layer chromatography paper chromatography gas chromatography high performance liquid chromatography electrophoresis potentiometry voltammetry conductometry coulometry and electrogravimetry

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 - The Rise of Digital Reading Hplc Lab Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Hplc Lab Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Hplc Lab Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Hplc Lab Manual
 - Personalized Recommendations
 - Hplc Lab Manual User Reviews and Ratings
 - Hplc Lab Manual and Bestseller Lists

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 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Hplc Lab Manual
9. Balancing eBooks and Physical Books Hplc Lab Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Hplc Lab Manual
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Hplc Lab Manual
 - Setting Reading Goals Hplc Lab Manual
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Hplc Lab Manual
 - Fact-Checking eBook Content of Hplc Lab Manual
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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nyco grease gn 148 bigcommerce - Aug 21 2023

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nyco grease gn 05 bigcommerce - Mar 16 2023

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nyco grease gn 25013 sevron - Nov 12 2022

web trade name nyco grease gn 25013 product code gn25013 4 1 2 relevant identified uses of the substance or mixture and uses advised against 1 2 1 relevant identified uses main use category industrial use use of the substance mixture grease function or use category lubricant 1 2 2 uses advised against no additional information

nyco grease gn 07 bigcommerce - Dec 01 2021

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nyco grease gn 148 nyco - Feb 15 2023

web nyco grease gn 148 is a nlgi 2 grade multipurpose aircraft grease based on a blend of synthetic diester oils and synthetic

hydrocarbon base stock and thickened with a complex lithium soap it is fortified with anticorrosion antioxidant and strong extreme pressure and anti wear additives

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web nyco grease gn 07 is a clay thickened nlgi 2 grease based on a highly thermostable polyol ester with a viscosity of 5 cst at 100 c it contains specific high temperature anti oxidants and has strong extreme pressure properties applications nyco grease gn 07 has excellent load carrying stability and is most suitable in anti friction

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technical data sheet nyco grease gn 148 - Jun 07 2022

web nyco grease gn 148 is a nlgi 2 grade grease based on a blend of synthetic diester oils and synthetic hydrocarbon basestock and thickened with a complex lithium soap nyco grease gn 148 exhibits outstanding anti rust properties even in

the presence of salty water and a very high lubrication capability under extreme loads