

## 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  $\mu\text{m}$  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.

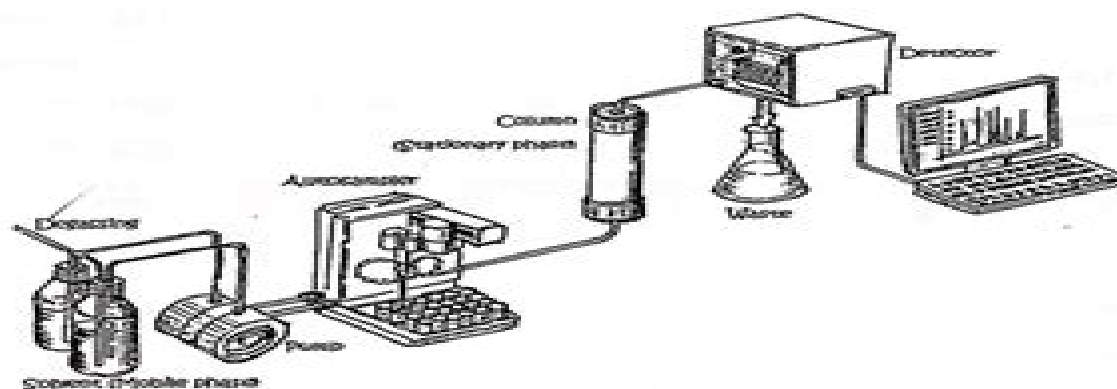


Figure 6.1: Schematic Diagram of a High Performance/ Pressure Liquid Chromatography.

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.

# Hplc Lab Manual

**WJ Hussar**



## **Hplc Lab Manual:**

This book delves into Hplc Lab Manual. Hplc Lab Manual is a crucial topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Hplc Lab Manual, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Hplc Lab Manual
- Chapter 2: Essential Elements of Hplc Lab Manual
- Chapter 3: Hplc Lab Manual in Everyday Life
- Chapter 4: Hplc Lab Manual in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Hplc Lab Manual. This chapter will explore what Hplc Lab Manual is, why Hplc Lab Manual is vital, and how to effectively learn about Hplc Lab Manual.

3. In chapter 2, the author will delve into the foundational concepts of Hplc Lab Manual. This chapter will elucidate the essential principles that must be understood to grasp Hplc Lab Manual in its entirety.

4. In chapter 3, this book will examine the practical applications of Hplc Lab Manual in daily life. This chapter will showcase real-world examples of how Hplc Lab Manual can be effectively utilized in everyday scenarios.

5. In chapter 4, this book will scrutinize the relevance of Hplc Lab Manual in specific contexts. This chapter will explore how Hplc Lab Manual is applied in specialized fields, such as education, business, and technology.

6. In chapter 5, this book will draw a conclusion about Hplc Lab Manual. The final chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Hplc Lab Manual.

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