Introduction

Due to the lack in English books related to practical Biochemistry experiments which belong to second stage students of Biology Department and third stage in Chemistry Department; this manual had been written to suit the scientific material and requirements of students of these departments in Science Colleges.

The subjects in this manual are divided into two chapters. The first chapter deals with experiments related to biological molecules in human daily life such as carbohydrates, fats, amino acids and proteins. The students will deal with these molecules as chemical compounds and detect them by chemical reactions.

While the second chapter deals with clinical biochemistry in which the students will first learn how to withdraw blood and study about its basic components. Then, they will start clinical experiments to calculate the concentration of most of the substances that have been studied in the first chapter which are found in blood. Furthermore, they will achieve other experiments to calculate some enzyme activities using standard Kits in such a way that are followed in most health centers and hospital departments.

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