

# Chemical Composition of Cells

by Justin Riel

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## Introduction

A cell, the fundamental building block of all living organisms, is composed of four conventional biopolymers: proteins, carbohydrates, lipids, and nucleic acids. Each macromolecule is a large polymer that is formed from constituent molecules known as monomers. Proteins, for instance, consist of a linear chain of amino acids joined together by peptide bonds (Murray *et al.*, 2006). Carbohydrates are formed from monosaccharides and disaccharides joined together by glycosidic bonds (Varki *et al.*, 2008). Lipids, such as fats and oils, are derived from glycerol combined with three fatty acids by ester bonds (G.P. Moss, 1976). And lastly, nucleic acids are composed of nucleotides; each of which contain a pentose sugar, phosphate group, and nucleobase (Mullis, 1993).

In this experiment, samples will be subjected through a variance of chemical tests using procedures that will detect the presence of each macromolecule. For the procedure correlated to the detection of proteins, it is predicted that the albumin will contain traces of protein due to it being known to be present in egg whites (an excellent source of protein). In the procedure correlated to the detection of starches, it is predicted that the potato will contain traces of starch due to the potato being the root of a plant. The onion, however, is predicted to show no trace of starch due to it being the bulb of a plant. In the procedure correlated to the detection of sugars, it is predicted that the glucose solution will show positive for sugars due to glucose being a monosaccharide. In the procedure correlated to the detection of fats, it is predicted that the paper square with one drop of water will evaporate, leaving no residual trace. The paper square with one drop of vegetable oil, however, is predicted to leave a spot; due to the properties of fats, the oil is not likely to evaporate.

# Chemical Composition Of Cells Lab Report Answers

**Eugene Franz Roeber, Howard Coon  
Parmelee**



## **Chemical Composition Of Cells Lab Report Answers:**

## Whispering the Secrets of Language: An Emotional Journey through **Chemical Composition Of Cells Lab Report Answers**

In a digitally-driven earth where displays reign great and quick connection drowns out the subtleties of language, the profound secrets and mental subtleties hidden within phrases often move unheard. Yet, set within the pages of **Chemical Composition Of Cells Lab Report Answers** a fascinating fictional prize sporting with natural thoughts, lies an extraordinary quest waiting to be undertaken. Penned by a talented wordsmith, this charming opus attracts visitors on an introspective trip, delicately unraveling the veiled truths and profound affect resonating within the fabric of each and every word. Within the mental depths of this emotional review, we will embark upon a sincere exploration of the book's primary themes, dissect their captivating writing fashion, and yield to the powerful resonance it evokes deep within the recesses of readers' hearts.

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