

# Chemical Composition of Cells

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Biology 111

February 18, 2011

## 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.

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