
5 Carbohydrates

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LEARNING OBJECTIVES

- Understand the structure and properties of different types of carbohydrates.
- Identification of different types of carbohydrates based on their properties.
- Interpret and analyze the results of different chemical tests.

INTRODUCTION

Carbohydrates with an empirical formula of $(\text{CH}_2\text{O})_n$ are a class of natural compounds that contain either an aldehyde or a ketone group and two or more hydroxyl groups and are the major source of energy in any living organism. Plants (autotrophs) synthesize carbohydrates by the process of