

PLANT PIGMENTS AND PHOTOSYNTHESIS

STANDARDS

- 3.2.10A, 3.2.10B, 3.2.12A, 3.2.12B
- 3.3.10.B, 3.3.12B



INTRODUCTION

Isolation of Plant Pigments

Paper chromatography is a technique that can be used to separate a complex mixture of molecules. In green plants, there is a mixture of four basic pigments found in their leaves. These pigments are shown in Table 1.

Pigment	Color	Function
Carotene	Red, orange, yellow	Capture light energy and transfer it to chlorophyll a; protect photosynthetic system from U/V-light damage
Xanthophyll	Yellow	Capture light energy and transfer it to chlorophyll a
Chlorophyll a	Bright green to blue-green	Primary photosynthetic pigment
Chlorophyll b	Yellow to olive-green	Capture light energy and transfer it to chlorophyll a

The chromatography solvent used in this experiment is a mixture of acetone and petroleum. The solubility of each pigment, plus its affinity for the cellulose paper will determine how quickly certain pigments migrate with the solvent as it is drawn up the chromatography paper.

Photosynthesis (The Light Reaction)

The process of photosynthesis involves the use of light energy to convert carbon dioxide and water into sugar, oxygen, and other organic compounds. This process is often summarized by the following reaction:



This process is an extremely complex one, occurring in two stages. The first stage, called the *light reactions of photosynthesis*, requires light energy. The products of the light reactions are then used to produce glucose from carbon dioxide and water. Because the reactions in the second stage do not require the direct use of light energy, they are called the *dark reactions of photosynthesis*.

In the light reactions, electrons derived from water are "excited" (raised to higher energy levels) in several steps, called photosystems I and II. In both steps, chlorophyll absorbs light energy that is used to excite the electrons. Normally, these electrons are passed to a cytochrome containing an electron transport chain. In the first photosystem, these electrons are used to generate ATP. In the second photosystem, excited electrons are used

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