

# REPORT: CELLULOSE, HEMICELLULOSE & LIGNIN CONTENT ANALYSIS

## 1. Title

Determination of Cellulose, Hemicellulose, and Lignin Content in Plant Biomass

## 2. Objective

To quantify cellulose, hemicellulose, and lignin fractions in plant biomass samples for evaluation of

## 3. Introduction

Cellulose, hemicellulose, and lignin are the primary structural components of plant cell walls. Determination of their relative proportions is crucial for understanding the properties and potential applications of plant biomass.

## 6. Results

Fiber Composition Results for Plant Biomass

Cellulose Content: 42%

Hemicellulose Content: 28%

Lignin Content: 18%

Other Components (Ash/Extractives): 12%