

LAB REPORT: HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY (HPLC)

1. Title

High-Performance Liquid Chromatographic Analysis of Sample Compounds

2. Objective

To separate, identify, and quantify components in a liquid sample using High-Performance Liquid Chromatography (HPLC).

3. Introduction

High-Performance Liquid Chromatography (HPLC) is an advanced analytical technique used to separate and analyze compounds in a liquid sample.

6. Results

Representative HPLC Analysis Results

Retention Time (min)	Compound	Peak Area (mAU-s)	Concentration (ppm)
2.3	Caffeine	1200	25
5.6	Theobromine	980	18
8.9	Catechin	760	15
12.2	Epicatechin	640	12