

## ABSTRAK

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Program Studi : Farmasi  
Judul : Perbedaan Kadar Kafein Biji Kopi Jantan dan Betina Kopi Arabika (*Coffea Arabica L.*) Menggunakan Metode Kromatografi Cair Kinerja Tinggi (KCKT).

Kopi memiliki 2 jenis biji, yaitu biji jantan yang sering disebut (Pea Berry) dan biji betina (Flat Berry) dimana kedua jenis biji ini mempunyai kandungan senyawa metabolit sekunder yang sama diantaranya kafein, sitosterin, kolin dan terpenoid. Tujuan penelitian ini untuk mengetahui perbedaan kadar kafein biji jantan dan betina pada tiga macam tingkatan roasting menggunakan metode kromatografi cair kinerja tinggi. Hasil yang diperoleh kandungan kafein biji jantan dengan light roasting 1,042%, medium roasting 0,931%, dark roasting 1,060%, dan biji betina dengan light roasting 1,022%, medium roasting 1,043%, dark roasting 0,911%.

Kata kunci : Kopi arabika, kopi jantan dan betina, roasting, kckt

## ABSTRACT

Name : Muhamad Tory Langgeng R  
Study Program : Pharmaceutical  
Title : Comparison of Caffeine Levels in Male and Female  
Coffee Beans in Types of Arabica Coffee (*Coffea Arabica*  
L) with Three Types of Roasting Levels Using High  
Performance Liquid Chromatography (HPLC) Method.

Coffee has 2 types of seeds, namely male seeds which are often called (Pea Berry) and female seeds (Flat Berry) where both types of seeds contain the same secondary metabolite compounds including caffeine, cytosterine, choline and terpenoid. The purpose of this study is to know the difference of male and female caffeine levels in three roasting levels using a high performance liquid chromatography method. The results obtained from male seed caffeine with light roasting 1.042%, medium roasting 0.931%, dark roasting 1.060%, and female seeds with light roasting 1.022%, medium roasting 1.043%, dark roasting 0.911%.

Keywords : Arabica coffee, male and female coffee, roasting, hplc