

## INTISARI

### **PENETAPAN KADAR ANTOSIANIN BUNGA TELANG (*Clitoria Ternatea L*) BERDASARKAN 3 JENIS PELARUT DENGAN METODE *pH DIFFERENTIAL* SPEKTROFOTOMETRI UV-VIS**

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Masyarakat sudah banyak mengenal bunga telang (*Clitoria Ternatea L*) yang banyak memiliki khasiat diantaranya yaitu mengobati mata merah, penyakit kulit, dan bersifat anti racun. Namun belum banyak orang yang mengetahui bahwa bunga telang bisa dimanfaatkan sebagai pewarna alami yang diambil dari zat aktifnya yaitu antosianin yang bertanggung jawab atas warna ungu. Tujuan dari penelitian ini ialah untuk mengetahui kadar antosianin yang terkandung dalam bunga telang. Metode penelitian ini menggunakan metode *pH differential* untuk mengukur perbedaan nilai absorbansi pada pH 1 dan pH 4,5 dengan Spektrofotometri UV-VIS dengan proses maserasi menggunakan pelarut aquadest, etanol 96% dan etil asetat yang dianalisis dengan cara uji statistic *Anova One-way*. Hasil akhir pengukuran dengan metode *pH Differential* yaitu kadar pada ekstrak aquadest 0,126%, 0,104%, 0,106%, etanol 96% 0,128%, 0,127%, 0,129%, dan etil asetat 0,053%, 0,055%, 0,055% dengan kadar antosianin tertinggi yaitu pada ekstrak etanol 96%.

Kata kunci : Antosinin, Bunga Telang, ekstraksi Maserasi

Keterangan : 1. Peneliti, 2. Pembimbing 1, 3. Pembimbing 2

## **ABSTRACT**

### ***DETERMINATION OF ANTHOCYANIN LEVELS IN TELANG FLOWERS (Clitoria Ternatea L) BASED ON 3 TYPES OF SOLVENTS USING THE PH DIFFERENTIAL SPECTROPHOTOMETRIC METHOD UV-VIS***

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*The public is already familiar with the telang flower (Clitoria Ternatea L) which has many properties including treating red eyes, skin diseases, and anti-toxic properties. However, not many people know that telang flowers can be used as natural dyes taken from their active substances, namely anthocyanins which are responsible for the purple color. The purpose of this study was to determine the levels of anthocyanins contained in telang flowers. This research method uses the Ph differential method to measure the difference in absorbance values at pH 1 and pH 4.5 with UV-VIS Spectrophotometry with a maceration process using aquadest solvents, 96% ethanol and ethyl acetate which were analyzed by means of the One-way Anova statistical test. The final results of measurements using the Differential pH method were the levels of aquadest extract 0.126%, 0.104%, 0.106%, ethanol 96% 0.128%, 0.127%, 0.129%, and ethyl acetate 0.053%, 0.055%, 0.055% with the highest anthocyanin levels in 96% ethanol extract.*

*Key words : Anthocyanin, Telang Flower, Maceration extraction*