

## LAMPIRAN

### Lampiran 1. Tabel Hasil pengamatan

Hasil analisa pembacaan A/T/C pada sampel bubuk kopi arabica (374 nm)

Pengujaan	Berat Sampel (ppm)				
	100	150	200	250	300
Absorbansi	0,287	0,474	0,709	0,923	1,075
% Transmittasi	51,64	33,57	19,54	11,94	8,41
Konsentrasi	0,288	0,474	0,709	0,923	1,076

Kadar flavonoid (%) pada bubuk kopi hasil analisa.

Konsentrasi	Kadar Flavonoid %
100 ppm	5,05
150 ppm	5,60
200 ppm	6,30
250 ppm	6,57
300 ppm	6,38

### Lampiran 2. Perhitungan

#### a. Penentuan besarnya konsentrasi sampel :

Untuk manentukan besarnya konsentrasi tiap-tiap bahan, maka dapat dihitung dari persamaan regresi yaitu :

$$y = a + bx$$

$$y = 0.0559x + 0.0043$$

- *variabel I*

$$y = 0.0559x + 0.0043$$

$$0,287 = 0.0559x + 0.0043$$

$$x = \frac{0.2827}{0.0559}$$

$$x = 5.05$$

- *variabel II*

$$y = 0.0559x + 0.0043$$

$$0.474 = 0.0559x + 0.0043$$

$$x = \frac{0.4697}{0.0559}$$

$$x = 8.40$$

- *variabel III*

$$y = 0.0559x + 0.0043$$

$$0.709 = 0.0559x + 0.0043$$

$$x = \frac{0.7047}{0.0559}$$

$$x = 12.60$$

- *variabel IV*

$$y = 0.0559x + 0.0043$$

$$0.923 = 0.0559x + 0.0043$$

$$x = \frac{0.050}{0.001}$$

$$x = 16.43$$

- *variabel V*

$$y = 0.0559x + 0.0043$$

$$1.075 = 0.0559x + 0.0043$$

$$x = \frac{1.070}{0.0559}$$

$$x = 19.15$$

**b. Penentuan besarnya persentase kadar flavonoid pada masing-masing sampel :**

- a. *variabel I*

$$\text{Kadar flavonoid} = \frac{X}{100} \times 100\%$$

$$\text{Kadar flavonoid} = \frac{5.05}{100} \times 100\%$$

$$\text{Kadar flavonoid} = 5.05 \%$$

- b. *variabel II*

$$\text{Kadar flavonoid} = \frac{X}{150} \times 100\%$$

$$\text{Kadar flavonoid} = \frac{8.40}{150} \times 100\%$$

$$\text{Kadar flavonoid} = 5.60 \%$$

- c. *variabel III*

$$\text{Kadar flavonoid} = \frac{X}{200} \times 100\%$$

$$\text{Kadar flavonoid} = \frac{12.60}{200} \times 100\%$$

$$\text{Kadar flavonoid} = 6.30 \%$$

- d. *variabel IV*

$$\text{Kadar flavonoid} = \frac{X}{250} \times 100\%$$

$$\text{Kadar flavonoid} = \frac{16.43}{250} \times 100\%$$

$$\text{Kadar flavonoid} = 6.57 \%$$

e. variabel V

$$\text{Kadar flavonoid} = \frac{X}{300} \times 100\%$$

$$\text{Kadar flavonoid} = \frac{19.15}{300} \times 100\%$$

$$\text{Kadar flavonoid} = 6.38 \%$$

### Lampiran 3. Gambar

#### 1. Gambar sampel sebelum pengujian



Ekstrak bubuk kopi Arabika

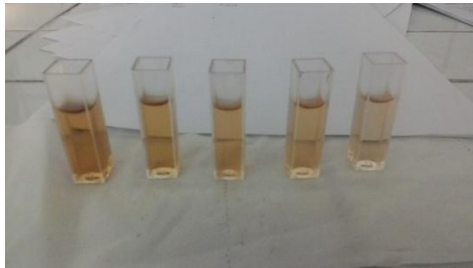


Pembuatan larutan sampel



Penyiapan alat spektrofotometer

## 2. Gambar Pengujian Sampel



Penyiapan sampel



setting absorbansi menjadi 0



Proses analisa



sampel I



sampel II



Sampel III



Sampel IV



sampel V