

## LAMPIRAN

### PERHITUNGAN HASIL ANALISA

**Tabel 1. Hasil Analisa Cake**

Variabel Waktu	Plate	Cawan Basah			Cawan Kering		
		I	II	III	I	II	III
9	I	140,93	130,27	127,24	138,26	128,60	125,30
	II	200,97	170,81	173,50	200,92	167,8	171,44
	III	201,67	172,90	171,30	200,15	170,5	170,80
15	I	249,84	245,61	225,54	246,11	243,36	223,20
	II	249,41	231,82	230,31	245,70	230,90	226,80
	III	258,70	187,13	209,09	255,15	186,04	206,22

**Tabel 2. Hasil Analisa Densitas dan Viskositas**

Variabel Bukaan	m (piknometer isi)		tx (waktu alir)	
	Sebelum	Sesudah	Sebelum	Sesudah
9	50,23	48,98	1,20	1,10
15	50,23	49,78	1,20	1,15

#### 1. Perhitungan Hasil Analisa

##### 1.1. Cake Basah

Rumus :

$$\text{Cake} = \text{Cawan Basah (isi)} - \text{Cawan Kosong}$$

##### 1.1.2. Variabel Waktu 9 Menit

###### a. Plate I

I.  $\text{Cake} = 140,93 - 50,91 = 90,02$

II.  $\text{Cake} = 200,97 - 50,36 = 150,61$

III.  $\text{Cake} = 201,67 - 50,20 = 151,47$

$$\text{Total} = 392,1$$

###### b. Plate II

- I. Cake =  $130,27 - 47,26 = 83,01$
  - II. Cake =  $170,81 - 43,97 = 126,84$
  - III. Cake =  $172,90 - 44,50 = 128,4$
- Total = 338,25

c. Plate III

- I. Cake =  $127,24 - 43,90 = 83,34$
  - II. Cake =  $173,50 - 47,41 = 126,09$
  - III. Cake =  $171,30 - 44,50 = 126,8$
- Total = 336,23

### 1.1.3. Variabel Waktu 15 Menit

a. Plate I

- I. Cake =  $249,84 - 43,90 = 205,94$
  - II. Cake =  $249,41 - 36,77 = 212,64$
  - III. Cake =  $258,70 - 44,19 = 214,51$
- Total = 633,09

b. Plate II

- I. Cake =  $245,61 - 43,82 = 201,79$
  - II. Cake =  $231,82 - 43,63 = 188,19$
  - III. Cake =  $187,13 - 44,53 = 142,6$
- Total = 532,58

c. Plate III

- I. Cake =  $225,54 - 47,30 = 178,24$
  - II. Cake =  $230,31 - 49,15 = 181,16$
  - III. Cake =  $209,09 - 42,28 = 166,81$
- Total = 526,21

## 1.2. Cake Kering

Rumus :

$$\text{Cake} = \text{Cawan kering (isi)} - \text{Cawan Kosong}$$

### 1.2.2. Variabel Waktu 9 Menit

a. Plate I

- I. Cake =  $138,26 - 50,91 = 87,35$
- II. Cake =  $200,92 - 50,36 = 150,56$

III. Cake =  $200,15 - 50,20 = 149,95$   
Total = 387,86

b. Plate II

I. Cake =  $128,60 - 47,26 = 81,34$   
II. Cake =  $167,8 - 43,97 = 123,83$   
III. Cake =  $170,5 - 44,50 = 126$   
Total = 331,17

c. Plate III

I. Cake =  $125,30 - 43,90 = 81,4$   
II. Cake =  $171,44 - 47,41 = 124,3$   
III. Cake =  $170,80 - 44,50 = 126,3$   
Total = 332

1.2.3 Variabel Waktu 15 Menit

a. Plate I

I. Cake =  $246,11 - 43,90 = 202,21$   
II. Cake =  $245,70 - 36,77 = 208,93$   
III. Cake =  $255,15 - 44,19 = 210,96$   
Total = 622,1

b. Plate II

I. Cake =  $243,36 - 43,82 = 199,54$   
II. Cake =  $230,90 - 43,63 = 187,27$   
III. Cake =  $186,04 - 44,53 = 141,51$   
Total = 528,32

c. Plate III

I. Cake =  $223,20 - 47,30 = 175,9$   
II. Cake =  $226,80 - 49,15 = 177,65$   
III. Cake =  $206,22 - 42,28 = 163,94$

Total = 517,49

1.3. Densitas

$$\rho = \frac{m}{v}$$

1.3.2. Variabel Waktu 9 Menit

a. Sebelum

$$\rho = \frac{47.15 - 22.96}{25} = 0.967 \text{ gram/ml}$$

b. Sesudah

$$\rho = \frac{46.17 - 22.96}{25} = 0.928 \text{ gram/ml}$$

### 1.3.3 Variabel Waktu 15 Menit

a. Sebelum

$$\rho = \frac{47.66 - 22.96}{25} = 0.988 \text{ gram/ml}$$

b. Sesudah

$$\rho = \frac{46.88 - 22.96}{25} = 0.957 \text{ gram/ml}$$

### 1.4. Viskositas

$$\mu_x = \frac{dx \cdot tx}{do \cdot to} \mu_o$$

#### 1.4.2. Variabel Waktu 9 Menit

a. Sebelum

$$\mu_x = \frac{1.10 \cdot 0.967}{1 \cdot 1} 1 = 1.06 \text{ cp}$$

b. Sesudah

$$\mu_x = \frac{0.95 \cdot 0.9548}{1 \cdot 1} 1 = 0.907 \text{ cp}$$

#### 1.4.1. Variabel Waktu 15 Menit

a. Sebelum

$$\mu_x = \frac{1.25 \cdot 0.988}{1 \cdot 1} 1 = 1.23 \text{ cp}$$

b. Sesudah

$$\mu_x = \frac{1.05 \cdot 0.957}{1 \cdot 1} 1 = 1.0048 \text{ cp}$$