

## LAMPIRAN

### 1. Tabel Hasil Pengamatan Volume Filtrat

Variabel			Pengamatan	Valve pengambilan filtrate (mL)			
Waktu (menit)	Air	Massa (gr)	Waktu (menit)	I	II	III	IV
60	40 L	1000 gr	10	530	490	440	425
			20	525	487	466	415
			30	510	498	455	420
60	40 L	2000 gr	10	543	517	480	419
			20	525	490	454	425
			30	510	475	460	417

### 2. Tabel Hasil Pengamatan Berat Cake Basah dan Cake kering

Variabel			Pengamatan	Berat Cake Basah (gr)			
Waktu (menit)	Air	Massa (gr)	Waktu (menit)	I	II	III	IV
60	40 L	1000 gr	10	9,88	5,25	3,89	2,15
			20	15,24	13,34	10,98	8,13
			30	16,96	14,78	11,12	9,19
60	40 L	2000 gr	10	12,23	10,98	9,23	7,82
			20	16,25	13,42	12,90	9,92
			30	19,30	17,89	14,20	10,92

Waktu (menit)	Variabel		Pengamatan	Berat Cake Kering			
	Air	Massa (gr)	Waktu (menit)	I	II	III	IV
60	40 L	1000 gr	10	7,28	4,21	2,70	1,02
			20	13,39	11,29	8,58	7,09
			30	15,46	13,28	10,22	8,48
60	40 L	2000 gr	10	10,99	9,21	8,72	6,52
			20	14,75	12,14	11,82	8,29
			30	17,21	16,30	13,21	8,98

### 3. Perhitungan Berat Cake Basah

#### 3.1. Berat Cake Basah Variabel I waktu pengambilan 10 menit

Berat Basah = (Berat cawan porselin + cake basah) – Berat cawan porselin kosong

##### a) Plate I

$$\begin{aligned} \text{Berat Cake Basah} &= 48,48 \text{ gram} - 38,60 \text{ gram} \\ &= 9,88 \text{ gram} \end{aligned}$$

##### b) Plate II

$$\begin{aligned} \text{Berat Cake Basah} &= 54,16 \text{ gram} - 48,91 \text{ gram} \\ &= 5,25 \text{ gram} \end{aligned}$$

##### c) Plate III

$$\begin{aligned} \text{Berat Cake Basah} &= 47,46 \text{ gram} - 43,48 \text{ gram} \\ &= 3,98 \text{ gram} \end{aligned}$$

##### d) Plate IV

$$\begin{aligned} \text{Berat Cake Basah} &= 53,23 \text{ gram} - 51,08 \text{ gram} \\ &= 2,15 \text{ gram} \end{aligned}$$

### 3.2. Berat Cake Basah Variabel I waktu pengambilan 20 menit

Berat Basah = (Berat cawan porselin + cake basah) – Berat cawan porselin kosong

**a) Plate I**

$$\begin{aligned}\text{Berat Cake Basah} &= 60,07 \text{ gram} - 44,83 \text{ gram} \\ &= 15,24 \text{ gram}\end{aligned}$$

**b) Plate II**

$$\begin{aligned}\text{Berat Cake Basah} &= 60,54 \text{ gram} - 47,20 \text{ gram} \\ &= 13,34 \text{ gram}\end{aligned}$$

**c) Plate III**

$$\begin{aligned}\text{Berat Cake Basah} &= 42,56 \text{ gram} - 31,58 \text{ gram} \\ &= 10,98 \text{ gram}\end{aligned}$$

**d) Plate IV**

$$\begin{aligned}\text{Berat Cake Basah} &= 47,16 \text{ gram} - 39,03 \text{ gram} \\ &= 8,13 \text{ gram}\end{aligned}$$

### 3.3. Berat Cake Basah Variabel I waktu pengambilan 30 menit

Berat Basah = (Berat cawan porselin + cake basah) – Berat cawan porselin kosong

**a) Plate I**

$$\begin{aligned}\text{Berat Cake Basah} &= 60,72 \text{ gram} - 43,76 \text{ gram} \\ &= 16,96 \text{ gram}\end{aligned}$$

**b) Plate II**

$$\begin{aligned}\text{Berat Cake Basah} &= 59,25 \text{ gram} - 44,47 \text{ gram} \\ &= 14,78 \text{ gram}\end{aligned}$$

**c) Plate III**

$$\begin{aligned}\text{Berat Cake Basah} &= 61,92 \text{ gram} - 50,80 \text{ gram} \\ &= 11,12 \text{ gram}\end{aligned}$$

**d) Plate IV**

$$\begin{aligned}\text{Berat Cake Basah} &= 53,03 \text{ gram} - 43,84 \text{ gram} \\ &= 9,19 \text{ gram}\end{aligned}$$

### 3.4. Berat Cake Basah Variabel II waktu pengambilan 10 menit

Berat Basah = (Berat cawan porselin + cake basah) – Berat cawan porselin kosong

**a) Plate I**

$$\begin{aligned}\text{Berat Cake Basah} &= 50,83 \text{ gram} - 38,60 \text{ gram} \\ &= 12,23 \text{ gram}\end{aligned}$$

**b) Plate II**

$$\begin{aligned}\text{Berat Cake Basah} &= 59,89 \text{ gram} - 48,91 \text{ gram} \\ &= 10,98 \text{ gram}\end{aligned}$$

**c) Plate III**

$$\begin{aligned}\text{Berat Cake Basah} &= 52,71 \text{ gram} - 43,48 \text{ gram} \\ &= 9,23 \text{ gram}\end{aligned}$$

**d) Plate IV**

$$\begin{aligned}\text{Berat Cake Basah} &= 58,90 \text{ gram} - 51,08 \text{ gram} \\ &= 7,82 \text{ gram}\end{aligned}$$

### 3.5. Berat Cake Basah Variabel II waktu pengambilan 20 menit

Berat Basah = (Berat cawan porselin + cake basah) – Berat cawan porselin kosong

**a) Plate I**

$$\begin{aligned}\text{Berat Cake Basah} &= 61,08 \text{ gram} - 44,83 \text{ gram} \\ &= 16,25 \text{ gram}\end{aligned}$$

**b) Plate II**

$$\begin{aligned}\text{Berat Cake Basah} &= 60,62 \text{ gram} - 47,20 \text{ gram} \\ &= 13,42 \text{ gram}\end{aligned}$$

**c) Plate III**

$$\begin{aligned}\text{Berat Cake Basah} &= 44,48 \text{ gram} - 31,58 \text{ gram} \\ &= 12,90 \text{ gram}\end{aligned}$$

**d) Plate IV**

$$\begin{aligned}\text{Berat Cake Basah} &= 48,95 \text{ gram} - 39,03 \text{ gram} \\ &= 9,92 \text{ gram}\end{aligned}$$

### 3.6. Berat Cake Basah Variabel II waktu pengambilan 30 menit

$$\text{Berat Basah} = (\text{Berat cawan porselin} + \text{cake basah}) - \text{Berat cawan porselin kosong}$$

#### a) Plate I

$$\begin{aligned}\text{Berat Cake Basah} &= 50,88 \text{ gram} - 31,58 \text{ gram} \\ &= 19,30 \text{ gram}\end{aligned}$$

#### b) Plate II

$$\begin{aligned}\text{Berat Cake Basah} &= 68,69 \text{ gram} - 50,80 \text{ gram} \\ &= 17,89 \text{ gram}\end{aligned}$$

#### c) Plate III

$$\begin{aligned}\text{Berat Cake Basah} &= 57,96 \text{ gram} - 43,76 \text{ gram} \\ &= 14,20 \text{ gram}\end{aligned}$$

#### d) Plate IV

$$\begin{aligned}\text{Berat Cake Basah} &= 54,76 \text{ gram} - 43,84 \text{ gram} \\ &= 10,92 \text{ gram}\end{aligned}$$

## 4. Perhitungan Berat Cake Kering

### 4.1. Berat Cake Kering Variabel I waktu pengambilan 10 menit

$$\text{Berat Kering} = (\text{Berat cawan porselin} + \text{cake kering}) - \text{Berat cawan porselin kosong}$$

#### a) Plate I

$$\begin{aligned}\text{Berat Cake Kering} &= 45,88 \text{ gram} - 38,60 \text{ gram} \\ &= 7,28 \text{ gram}\end{aligned}$$

#### b) Plate II

$$\begin{aligned}\text{Berat Cake Kering} &= 53,12 \text{ gram} - 48,91 \text{ gram} \\ &= 4,21 \text{ gram}\end{aligned}$$

#### c) Plate III

$$\begin{aligned}\text{Berat Cake Kering} &= 46,18 \text{ gram} - 43,48 \text{ gram} \\ &= 2,70 \text{ gram}\end{aligned}$$

#### d) Plate IV

$$\begin{aligned}\text{Berat Cake Kering} &= 52,10 \text{ gram} - 51,08 \text{ gram} \\ &= 1,02 \text{ gram}\end{aligned}$$

#### 4.2. Berat Cake Kering Variabel I waktu pengambilan 20 menit

Berat Kering = (Berat cawan porselin + cake kering) – Berat cawan porselin kosong

**a) Plate I**

$$\begin{aligned}\text{Berat Cake Kering} &= 58,22 \text{ gram} - 44,83 \text{ gram} \\ &= 13,39 \text{ gram}\end{aligned}$$

**b) Plate II**

$$\begin{aligned}\text{Berat Cake Kering} &= 58,49 \text{ gram} - 47,20 \text{ gram} \\ &= 11,29 \text{ gram}\end{aligned}$$

**c) Plate III**

$$\begin{aligned}\text{Berat Cake Kering} &= 40,16 \text{ gram} - 31,58 \text{ gram} \\ &= 8,58 \text{ gram}\end{aligned}$$

**d) Plate IV**

$$\begin{aligned}\text{Berat Cake Kering} &= 47,12 \text{ gram} - 39,03 \text{ gram} \\ &= 8,09 \text{ gram}\end{aligned}$$

#### 4.3. Berat Cake Kering Variabel I waktu pengambilan 30 menit

Berat Kering = (Berat cawan porselin + cake kering) – Berat cawan porselin kosong

**a) Plate I**

$$\begin{aligned}\text{Berat Cake Kering} &= 59,22 \text{ gram} - 43,76 \text{ gram} \\ &= 15,46 \text{ gram}\end{aligned}$$

**b) Plate II**

$$\begin{aligned}\text{Berat Cake Kering} &= 57,75 \text{ gram} - 44,47 \text{ gram} \\ &= 13,28 \text{ gram}\end{aligned}$$

**c) Plate III**

$$\begin{aligned}\text{Berat Cake Kering} &= 61,02 \text{ gram} - 50,80 \text{ gram} \\ &= 10,22 \text{ gram}\end{aligned}$$

**d) Plate IV**

$$\begin{aligned}\text{Berat Cake Kering} &= 52,32 \text{ gram} - 43,84 \text{ gram} \\ &= 8,48 \text{ gram}\end{aligned}$$

#### 4.4. Berat Cake Kering Variabel II waktu pengambilan 10 menit

Berat Kering = (Berat cawan porselin + cake kering) – Berat cawan porselin kosong

**a) Plate I**

$$\begin{aligned}\text{Berat Cake Kering} &= 49,59 \text{ gram} - 38,60 \text{ gram} \\ &= 10,99 \text{ gram}\end{aligned}$$

**b) Plate II**

$$\begin{aligned}\text{Berat Cake Kering} &= 58,21 \text{ gram} - 48,91 \text{ gram} \\ &= 9,21 \text{ gram}\end{aligned}$$

**c) Plate III**

$$\begin{aligned}\text{Berat Cake Kering} &= 52,20 \text{ gram} - 43,48 \text{ gram} \\ &= 8,72 \text{ gram}\end{aligned}$$

**d) Plate IV**

$$\begin{aligned}\text{Berat Cake Kering} &= 57,60 \text{ gram} - 51,08 \text{ gram} \\ &= 6,52 \text{ gram}\end{aligned}$$

#### 4.5. Berat Cake Kering Variabel II waktu pengambilan 20 menit

Berat Kering = (Berat cawan porselin + cake kering) – Berat cawan porselin kosong

**a) Plate I**

$$\begin{aligned}\text{Berat Cake Kering} &= 59,58 \text{ gram} - 44,83 \text{ gram} \\ &= 14,75 \text{ gram}\end{aligned}$$

**b) Plate II**

$$\begin{aligned}\text{Berat Cake Kering} &= 59,34 \text{ gram} - 47,20 \text{ gram} \\ &= 12,14 \text{ gram}\end{aligned}$$

**c) Plate III**

$$\begin{aligned}\text{Berat Cake Kering} &= 43,40 \text{ gram} - 31,58 \text{ gram} \\ &= 11,82 \text{ gram}\end{aligned}$$

**d) Plate IV**

$$\begin{aligned}\text{Berat Cake Kering} &= 47,32 \text{ gram} - 39,03 \text{ gram} \\ &= 8,29 \text{ gram}\end{aligned}$$

#### 4.6. Berat Cake Kering Variabel II waktu pengambilan 30 menit

Berat Kering = (Berat cawan porselin + cake kering) – Berat cawan porselin kosong

**a) Plate I**

$$\begin{aligned}\text{Berat Cake Kering} &= 48,79 \text{ gram} - 31,58 \text{ gram} \\ &= 17,21 \text{ gram}\end{aligned}$$

**b) Plate II**

$$\begin{aligned}\text{Berat Cake Kering} &= 67,10 \text{ gram} - 50,80 \text{ gram} \\ &= 16,30 \text{ gram}\end{aligned}$$

**c) Plate III**

$$\begin{aligned}\text{Berat Cake Kering} &= 56,97 \text{ gram} - 43,76 \text{ gram} \\ &= 13,21 \text{ gram}\end{aligned}$$

**d) Plate IV**

$$\begin{aligned}\text{Berat Cake Kering} &= 52,82 \text{ gram} - 43,84 \text{ gram} \\ &= 8,98 \text{ gram}\end{aligned}$$



## 5. Foto praktikum

Foto	Keterangan
	Bahan Praktikum Tepung Beras
	Hasil filtrat dari Filtrasi
	Hasil Cake Basah
	Hasil Cake kering