

Lampiran 1. Hasil Penimbangan

Tabel 4. Hasil Penimbangan

Kode sampel	Bobot sampel	Labu	Labu	Bobot	
		kosong	kosong+lemak	lemak	
		(gram)			
A	A1	1,00645	115,7048	115,7382	0,0334
	A2	1,00742	115,7060	115,7411	0,0351
B	B1	1,12732	104,0284	104,0826	0,0542
	B2	1,04220	104,0276	104,0769	0,0493
C	C1	1,09043	113,0404	113,0704	0,0300
	C2	1,08141	112,9972	113,0255	0,0283

Lampiran 2. Perhitungan Kadar Lemak dalam Sampel Biskuit

❖ Perhitungan kadar lemak dalam sampel biskuit

1. Biskuit A pengulangan 1 (A1)

$$\begin{aligned}\% \text{ Lemak} &= \frac{\text{bobot lemak}}{\text{bobot sampel}} \times 100\% \\ &= \frac{0,0334}{1,00645} \times 100\% \\ &= 3,32\% \text{ } b/b\end{aligned}$$

2. Biskuit A pengulangan 2 (A2)

$$\begin{aligned}\% \text{ Lemak} &= \frac{\text{bobot lemak}}{\text{bobot sampel}} \times 100\% \\ &= \frac{0,0351}{1,00742} \times 100\% \\ &= 3,48\% \text{ } b/b\end{aligned}$$

3. Biskuit B pengulangan 1 (B1)

$$\begin{aligned}\% \text{ Lemak} &= \frac{\text{bobot lemak}}{\text{bobot sampel}} \times 100\% \\ &= \frac{0,0542}{1,12732} \times 100\% \\ &= 4,81\% \text{ } b/b\end{aligned}$$

4. Biskuit B pengulangan 2 (B2)

$$\begin{aligned}\% \text{ Lemak} &= \frac{\text{bobot lemak}}{\text{bobot sampel}} \times 100\% \\ &= \frac{0,0493}{1,04220} \times 100\% \\ &= 4,73\% \text{ } b/b\end{aligned}$$

5. Biskuit C pengulangan 1 (C1)

$$\begin{aligned}\% \text{ Lemak} &= \frac{\text{bobot lemak}}{\text{bobot sampel}} \times 100\% \\ &= \frac{0,0300}{1,09043} \times 100\%\end{aligned}$$

$$= 2,75 \% \text{ b/b}$$

6. Biskuit C pengulangan 2 (C2)

$$\begin{aligned} \% \text{ Lemak} &= \frac{\text{bobot lemak}}{\text{bobot sampel}} \times 100\% \\ &= \frac{0,0283}{1,08141} \times 100\% \\ &= 2,62 \% \text{ b/b} \end{aligned}$$

❖ Perhitungan %RPD

1. Biskuit A pengulangan 1 (A1) = 3,48%

Biskuit A pengulangan 2 (A2) = 3,32%

$$\begin{aligned} \% \text{RPD} &= \left| \frac{\text{hasil pengukuran} - \text{duplikat pengukuran}}{(\text{hasil pengukuran} + \text{duplikat pengukuran})/2} \right| \times 100\% \\ &= \left| \frac{(3,48 - 3,32)}{\frac{3,48 + 3,32}{2}} \right| \times 100\% \\ &= \frac{0,16}{3,40} \times 100\% \\ &= 4,71\% \end{aligned}$$

Diperoleh %RPD biskuit A adalah $\leq 10\%$

2. Biskuit B pengulangan 1 (B1) = 4,81%

Biskuit B pengulangan 2 (B2) = 4,73%

$$\begin{aligned} \% \text{RPD} &= \left| \frac{\text{hasil pengukuran} - \text{duplikat pengukuran}}{(\text{hasil pengukuran} + \text{duplikat pengukuran})/2} \right| \times 100\% \\ &= \left| \frac{(4,81 - 4,73)}{\frac{4,81 + 4,73}{2}} \right| \times 100\% \\ &= \frac{0,08}{4,77} \times 100\% \\ &= 1,68\% \end{aligned}$$

Diperoleh %RPD biskuit B adalah $\leq 10\%$

3. Biskuit C pengulangan 1 (C1) = 2,75%

Biskuit C pengulangan 2 (C2) = 2,62%

$$\begin{aligned}
\%RPD &= \left| \frac{\text{hasil pengukuran} - \text{duplikat pengukuran}}{(\text{hasil pengukuran} + \text{duplikat pengukuran})/2} \right| \times 100\% \\
&= \left| \frac{(2,75 - 2,62)}{\frac{2,75 + 2,62}{2}} \right| \times 100\% \\
&= \frac{0,13}{2,69} \times 100\% \\
&= 4,83\%
\end{aligned}$$

Diperoleh %RPD biskuit A adalah $\leq 10\%$

❖ Kadar lemak rata-rata pada sampel biskuit

%RPD biskuit A, B dan C karena memenuhi persyaratan $\%RPD \leq 10\%$ maka kadar lemak adalah hasil rata-rata kadar lemak. Hasil kadar lemak rata-rata sampel A, B dan C sebagai berikut:

$$\begin{aligned}
1. \text{ Biskuit A} &= \frac{\text{hasil pengukuran} - \text{duplikat pengukuran}}{2} \\
&= \frac{3,32 + 3,48}{2} \\
&= 3,40\% \text{ } b/b
\end{aligned}$$

Biskuit A didapat kadar lemak rata-rata sebesar $3,40\% \text{ } b/b$

$$\begin{aligned}
2. \text{ Biskuit B} &= \frac{\text{hasil pengukuran} - \text{duplikat pengukuran}}{2} \\
&= \frac{4,81 + 4,73}{2} \\
&= 4,77\% \text{ } b/b
\end{aligned}$$

Biskuit B didapat kadar lemak rata-rata sebesar $4,77\% \text{ } b/b$

$$\begin{aligned}
3. \text{ Biskuit C} &= \frac{\text{hasil pengukuran} - \text{duplikat pengukuran}}{2} \\
&= \frac{2,75 + 2,62}{2} \\
&= 2,69\% \text{ } b/b
\end{aligned}$$

Biskuit C didapat kadar lemak rata-rata sebesar $2,69\% \text{ } b/b$