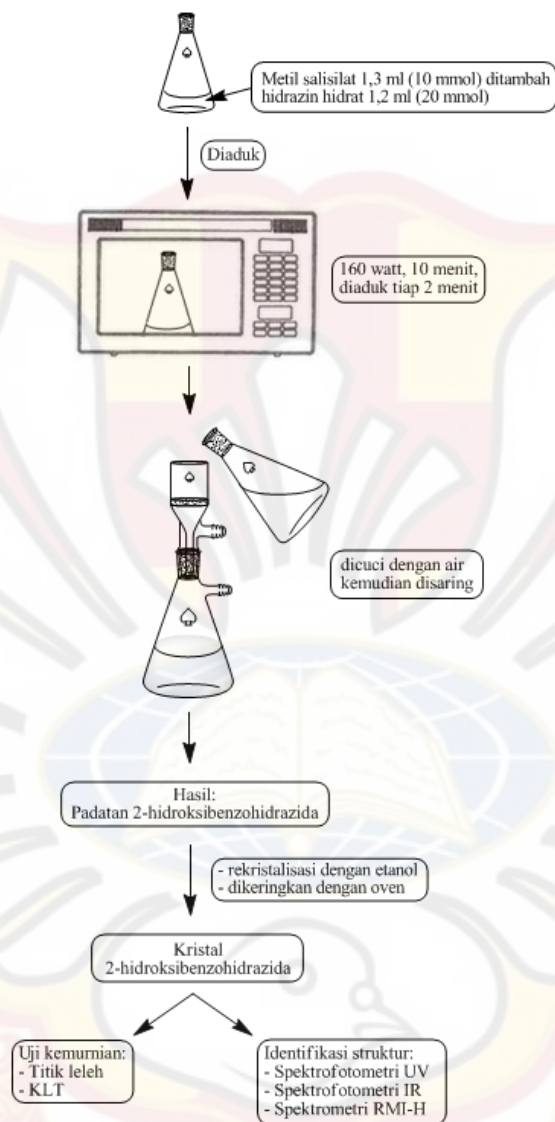
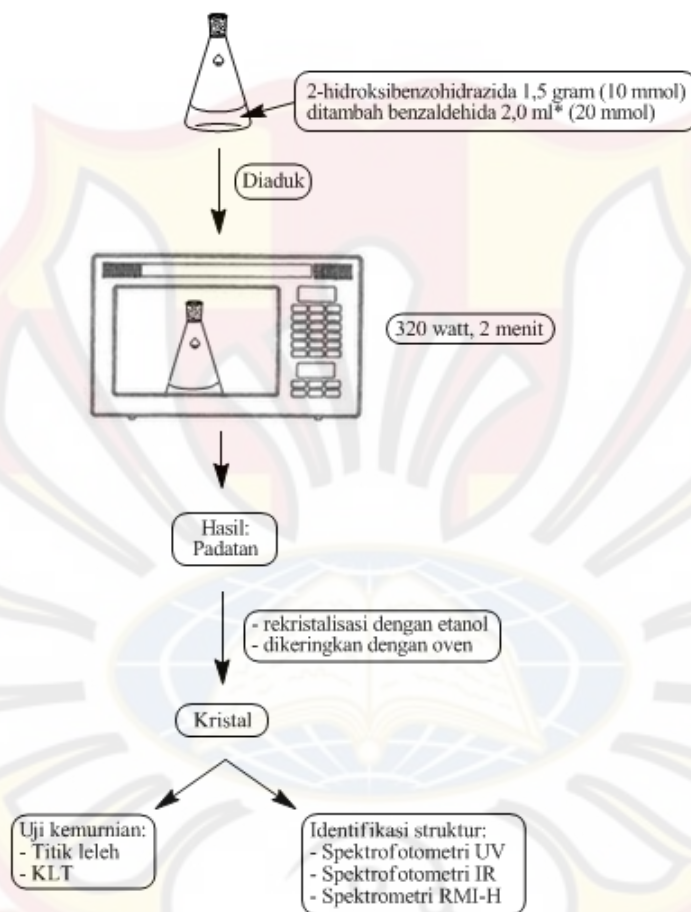


LAMPIRAN A
SKEMA SINTESIS 2-HIDROKSIBENZOHIDRAZIDA



LAMPIRAN B

SKEMA SINTESIS N'-BENZILIDEN-2-HIDROKSIBENZOHIDRAZIDA, N'-(4-METILBENZILIDEN)-2-HIDROKSIBENZOHIDRAZIDA, N'-(4-METOKSIBENZILIDEN)-2-HIDROKSIBENZOHIDRAZIDA



(*) Pada sintesis N'-(4-metilbenziliden)-2-hidroksibenzohidrazida, benzaldehida diganti dengan 4-metilbenzaldehida 2,4 ml (20 mmol); pada sintesis N'-(4-metoksibenziliden)-2-hidroksibenzohidrazida, benzaldehida diganti dengan 4-metoksibenzaldehida 2,4 ml (20 mmol);

LAMPIRAN C
PERHITUNGAN BERAT TEORITIS 2-
HIDROKSIBENZOHIDRAZIDA

- **Metil salisilat** (BM = 152,15, BJ = 1,184)

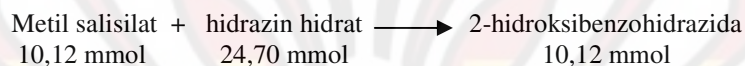
volume metil salisilat = 1,3 ml

$$\text{mmol metil salisilat} = \frac{1,3 \times 1,184}{152,15} \times 1000 = 10,12 \text{ mmol}$$

- **Hidrazin hidrat** (BM = 50,05 BJ = 1,03)

volume hidrazin hidrat = 1,2 ml

$$\text{mmol hidrazin hidrat} = \frac{1,2 \times 1,03}{50,05} \times 1000 = 24,70 \text{ mmol}$$



- **2-hidroksibenzohidrazida** (BM = 152,15)

mmol teoritis = 10,12 mmol

$$\text{berat teoritis} = 10,12 \times 152,15 = 1539,76 \text{ mg} = 1,54 \text{ gram}$$

LAMPIRAN D
PERHITUNGAN PERSENTASE HASIL SINTESIS
2-HIDROKSIBENZOHIDRAZIDA

Berat molekul 2-hidroksibenzohidrazida = 152,15

mmol teoritis 2-hidroksibenzohidrazida = 10,12 mmol

- **Sintesis I**

berat praktis = 1185 mgram

$$\text{mmol praktis} = \frac{1185}{152,15} = 7,79 \text{ mmol}$$

$$\text{persentase hasil} = \frac{7,79}{10,12} \times 100 \% = 76,97 \%$$

- **Sintesis II**

berat praktis = 1205 mgram

$$\text{mmol praktis} = \frac{1205}{152,15} = 7,92 \text{ mmol}$$

$$\text{persentase hasil} = \frac{7,92}{10,12} \times 100 \% = 78,26 \%$$

- **Sintesis III**

berat praktis = 1149 mgram

$$\text{mmol praktis} = \frac{1149}{152,15} = 7,55 \text{ mmol}$$

$$\text{persentase hasil} = \frac{7,55}{10,12} \times 100 \% = 74,60 \%$$

$$\text{Rata-rata} = \frac{76,97 + 78,26 + 74,60}{3} = 76,61 \% \approx 77 \%$$

LAMPIRAN E
PERHITUNGAN BERAT TEORITIS
N'-BENZILIDEN-2-HIDROKSIBENZOHIDRAZIDA

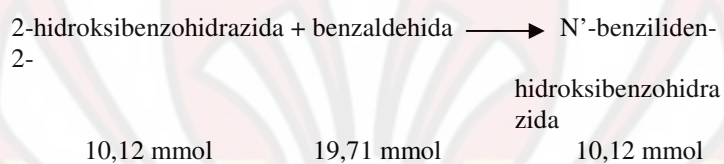
- **2-hidroksibenzohidrazida**

mmol teoritis = 10,12 mmol

- **Benzaldehida** (BM = 106,12, BJ = 1,046)

volume benzaldehida = 2,0 ml

mmol benzaldehida = $\frac{2,0 \times 1,046}{106,12} \times 1000 = 19,71 \text{ mmol}$



- **N'-benziliden-2-hidroksibenzohidrazida** (BM = 240,26)

mmol teoritis = 10,12 mmol

berat teoritis = $10,12 \times 240,26 = 2431,43 \text{ mgram} = 2,43 \text{ gram}$

LAMPIRAN F
PERHITUNGAN PERSENTASE HASIL SINTESIS
N'-BENZILIDEN-2-HIDROKSIBENZOHIDRAZIDA

Berat molekul N'-benziliden-2-hidroksibenzohidrazida = 240,26

mmol teoritis N'-benziliden-2-hidroksibenzohidrazida = 10,12 mmol

- **Sintesis I**

berat praktis = 1701 mgram

$$\text{mmol praktis} = \frac{1701}{240,26} = 7,08 \text{ mmol}$$

$$\text{persentase hasil} = \frac{7,08}{10,12} \times 100 \% = 69,96 \%$$

- **Sintesis II**

berat praktis = 1652 mgram

$$\text{mmol praktis} = \frac{1652}{240,26} = 6,88 \text{ mmol}$$

$$\text{persentase hasil} = \frac{6,88}{10,12} \times 100 \% = 67,98 \%$$

- **Sintesis III**

berat praktis = 1751 mgram

$$\text{mmol praktis} = \frac{1751}{240,26} = 7,29 \text{ mmol}$$

$$\text{persentase hasil} = \frac{7,29}{10,12} \times 100 \% = 72,03 \%$$

$$\text{Rata-rata} = \frac{69,96 + 67,98 + 72,03}{3} = 69,99 \% \approx 70 \%$$