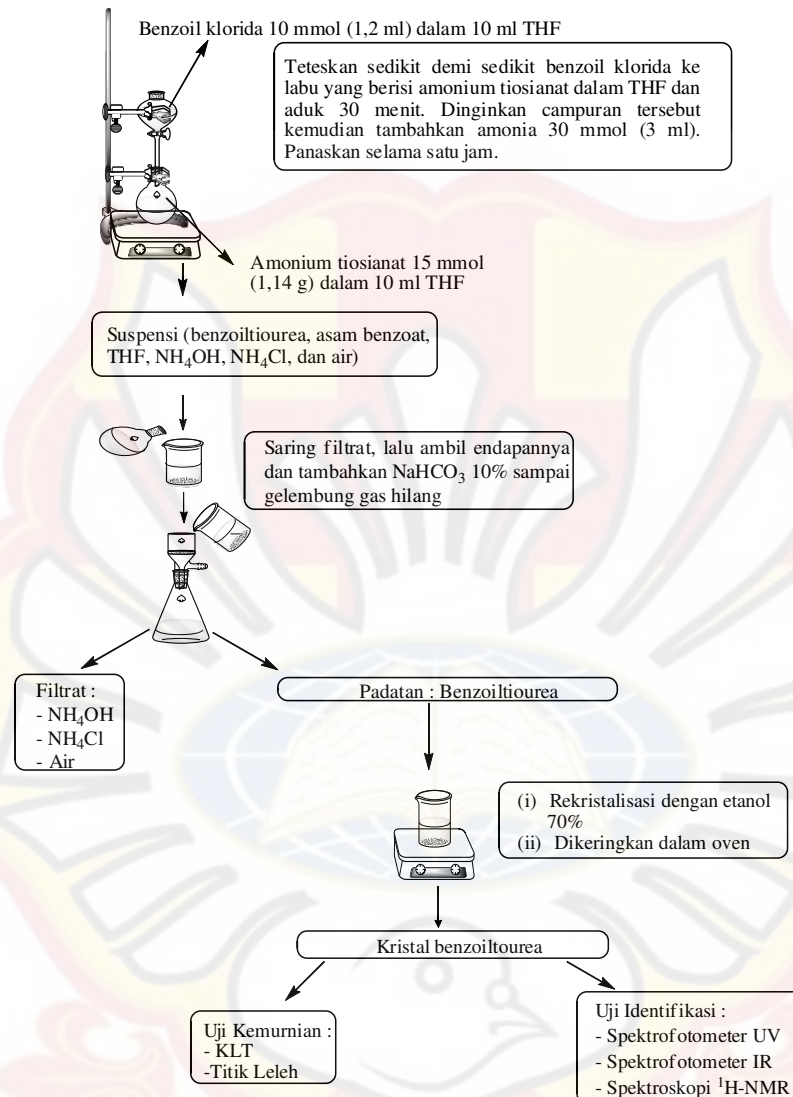


LAMPIRAN A**RANGKAIAN ALAT UNTUK SINTESIS**

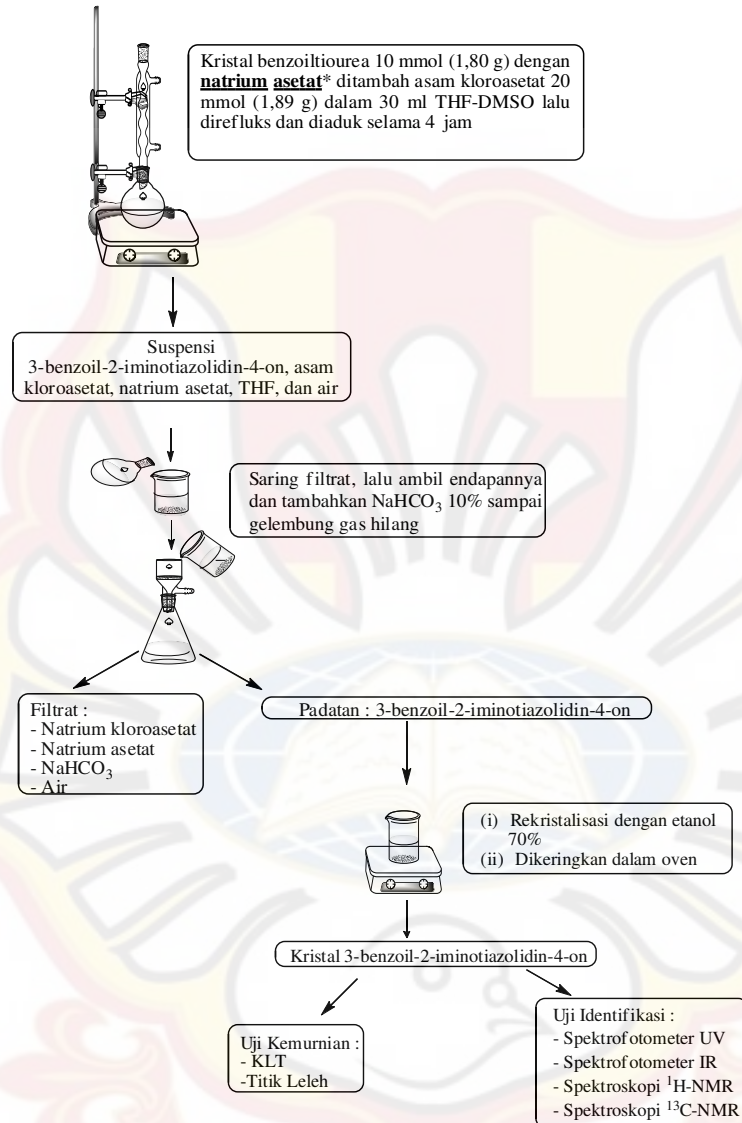
LAMPIRAN B

BAGAN ALIR SINTESIS BENZOILTIOUREA



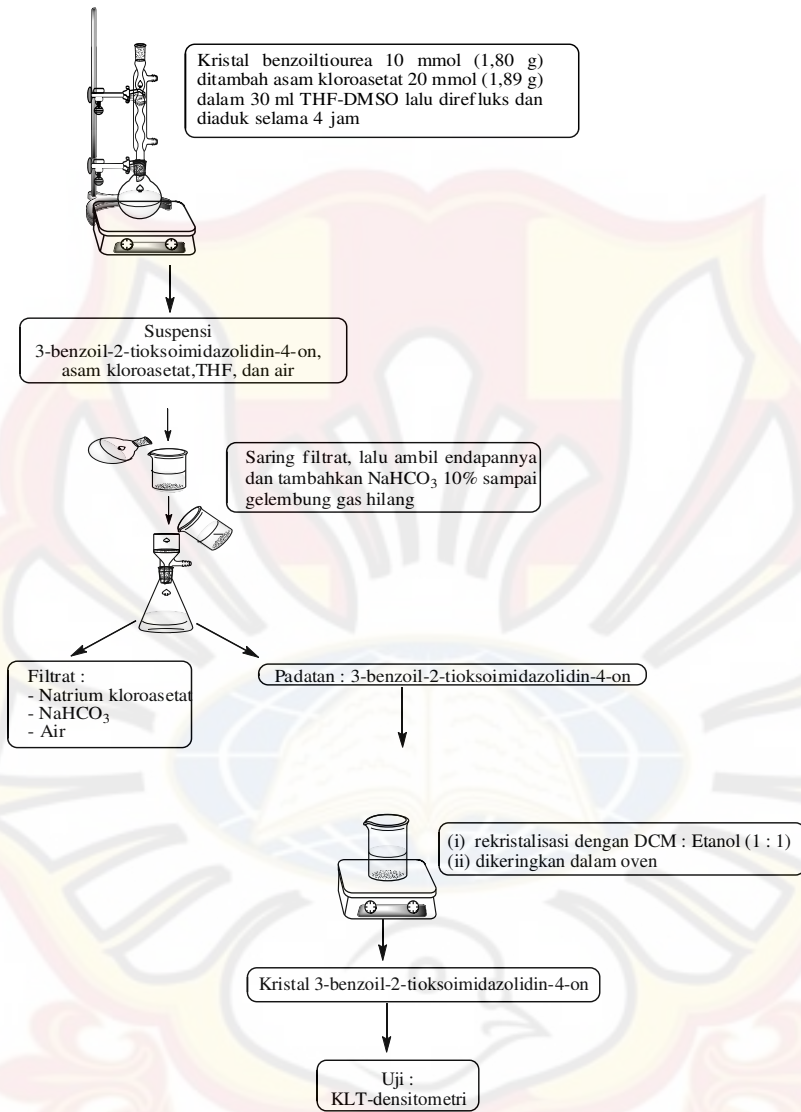
LAMPIRAN C

BAGAN ALIR SIKLISASI TAHAP II-A



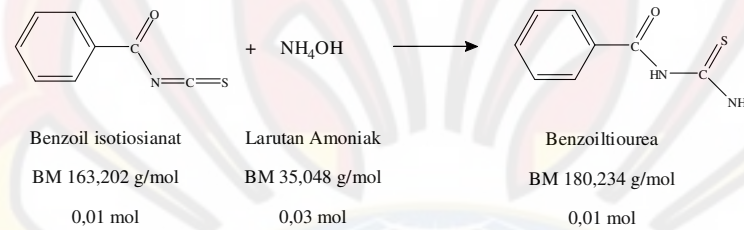
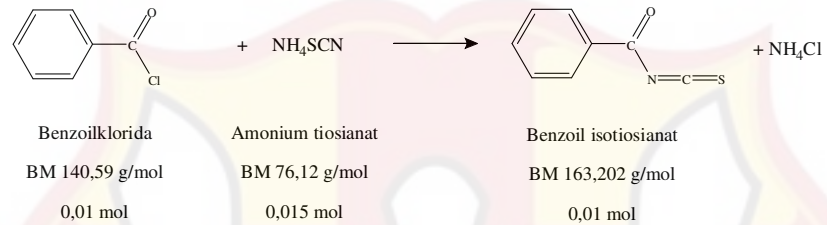
LAMPIRAN D

BAGAN ALIR SIKLISASI TAHAP II-B



LAMPIRAN E

**PERHITUNGAN HASIL SINTESIS BENZOILTIOUREA SECARA
TEORITIS**

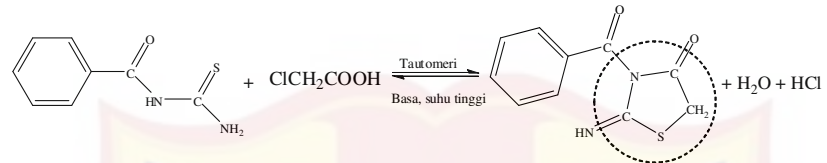


Berat molekul Benzoiltiourea = 180,234 g/mol

Berat Benzoiltiourea = 0,01 mol x 180,234 g/mol = 1,802 g

LAMPIRAN F

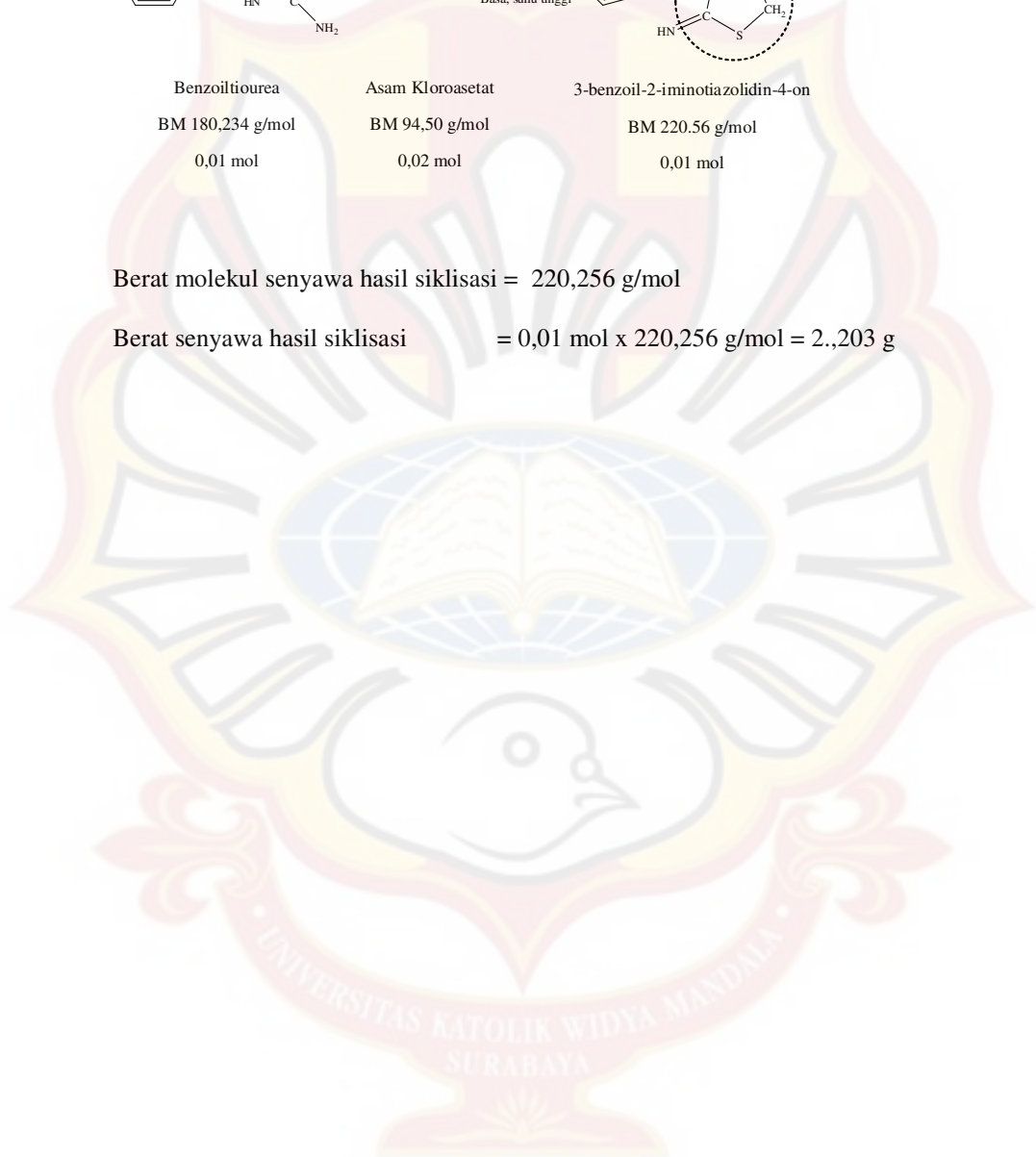
**PERHITUNGAN SENYAWA SIKLISASI TAHAP II-A SECARA
TEORITIS**



Benzoiltiurea	Asam Kloroasetat	3-benzoil-2-iminotiazolidin-4-on
BM 180,234 g/mol	BM 94,50 g/mol	BM 220,56 g/mol
0,01 mol	0,02 mol	0,01 mol

Berat molekul senyawa hasil siklisasi = 220,256 g/mol

Berat senyawa hasil siklisasi = 0,01 mol x 220,256 g/mol = 2,203 g



LAMPIRAN G

**CONTOH PERHITUNGAN PERSENTASE HASIL
BENZOILTIOUREA DAN SENYAWA SIKLISASI TAHAP II-A**

$$\text{Presentase hasil} = \frac{\text{berat praktis senyawa A atau B}}{\text{berat teoritis senyawa A atau B}} \times 100 \%$$

a. Benzoiltiourea

Sintesis I : Berat praktis = 1,2 gram
 Berat teoritis = 1,8 gram
 Presentase hasil = $\frac{1,2}{1,8} \times 100 \% = 68 \%$

Sintesis I : Presentase hasil = 72 % (1,3 gram)

Sintesis III : Presentase hasil = 72 % (1,3 gram)

Persentase hasil rata-rata : $\frac{68 \% + 72 \% + 72 \%}{3} = 71 \%$

b. Senyawa Siklisasi Tahap II-A

Sintesis I : Berat praktis = 1,5 gram
 Berat teoritis = 2,2 gram
 Presentase hasil = $\frac{1,5}{2,2} \times 100 \% = 68 \%$

Sintesis I : Presentase hasil = 68 % (1,5 gram)

Sintesis III : Presentase hasil = 64 % (1,4 gram)

Persentase hasil rata-rata : $\frac{68 \% + 68 \% + 64 \%}{3} = 67 \%$