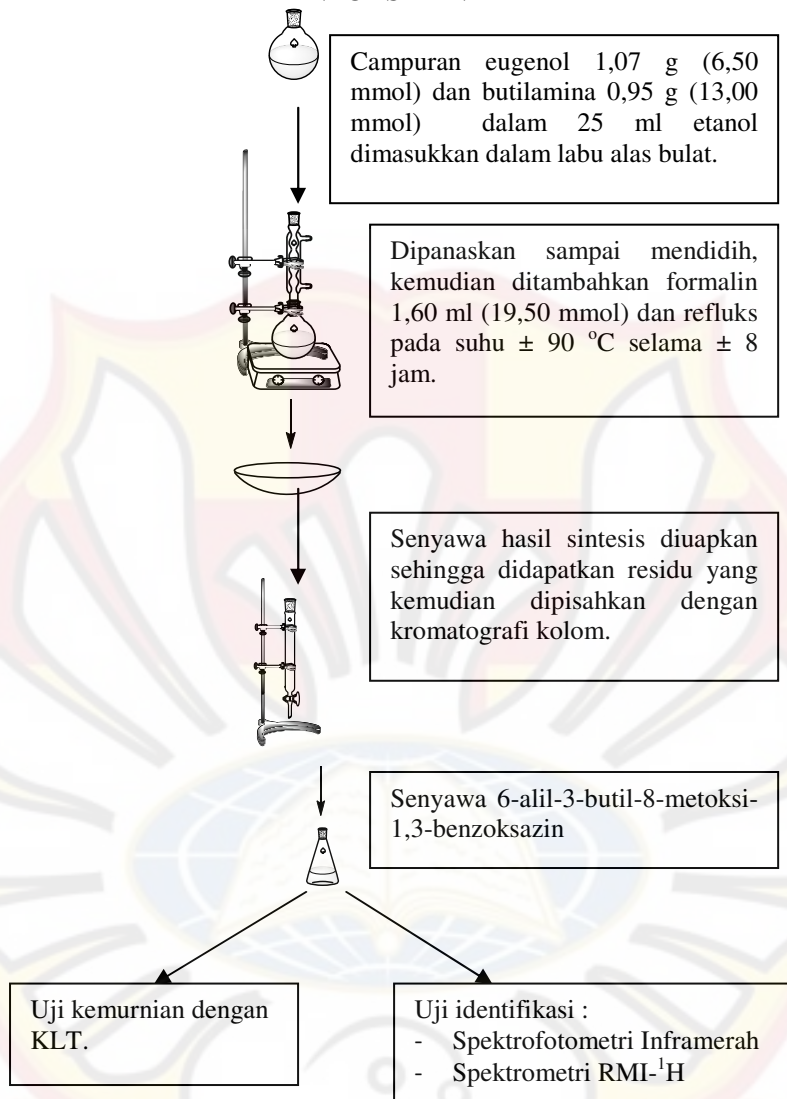
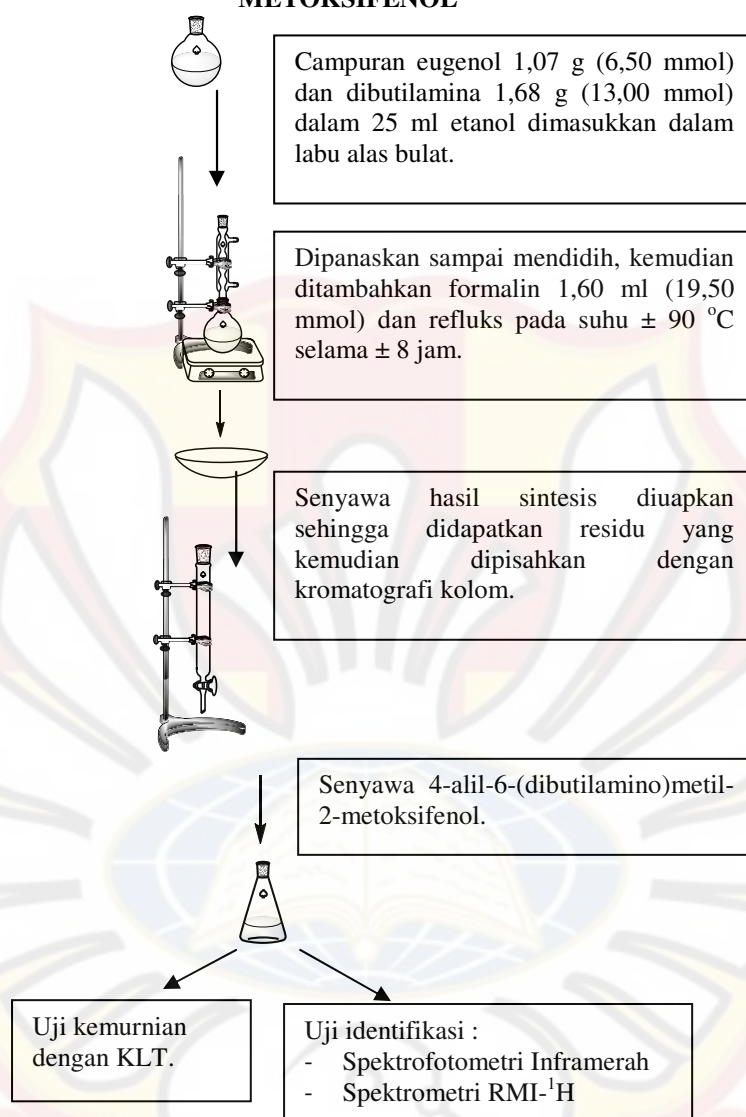


LAMPIRAN A
SKEMA SINTESIS 6-ALIL-3-BUTIL-8-METOKSI-1,3-
BENZOKSAZIN



LAMPIRAN B

SKEMA SINTESIS 4-ALIL-6-(DIBUTILAMINO)METIL-2-METOKSIFENOL



LAMPIRAN C

CONTOH PERHITUNGAN BERAT TEORITIS 6-ALIL-3-BUTIL-8-METOKSI-1,3-BENZOKSAZIN

$$\text{mg eugenol} = 1068,1 \text{ mg (MR = 164,20)}$$

$$m = n \times \text{MR}$$

$$1068,1 = n \times 164,20$$

$$n = 6,50 \text{ mmol}$$

$$\text{mg butilamina} = 978,6 \text{ mg (MR = 73,14)}$$

$$m = n \times \text{MR}$$

$$978,6 = n \times 73,14$$

$$n = 13,38 \text{ mmol}$$

$$\text{volume formalin} = 1,60 \text{ ml (MR = 30,03)}$$

$$\% \text{ kadar} = 37 \% \text{ b/v}$$

$$= \frac{37 \text{ gram}}{100 \text{ ml}} = \frac{37/30,03}{100 \text{ ml}} = \frac{1,23 \text{ mol}}{100 \text{ ml}}$$

$$= 12,30 \text{ mmol / ml}$$

$$\text{volume} = n / 12,30$$

$$1,60 = n / 12,30$$

$$n = 19,50 \text{ mmol}$$

$$n \text{ formalin} = 3 \times n$$

$$19,50 = 3 \times n$$

$$n = 6,50 \text{ mmol}$$

$$\text{mmol teoritis 6-alil-3-butyl-8-metoksi-1,3-benzoksazin} = \text{mmol eugenol} = 6,50 \text{ (MR = 261,36)}$$

$$m \text{ teoritis} = n \times \text{MR}$$

$$m \text{ teoritis} = 6,50 \times 261,36$$

$$m \text{ teoritis} = 1698,84 \text{ mg}$$

LAMPIRAN D

CONTOH PERHITUNGAN RENDEMEN HASIL SINTESIS 6-ALIL-3-BUTIL-8-METOKSI-1,3-BENZOKSAZIN

$$m \text{ praktis} = 1390,0 \text{ mg}$$

$$MR = 261,36$$

$$\text{mmol praktis} = m / MR$$

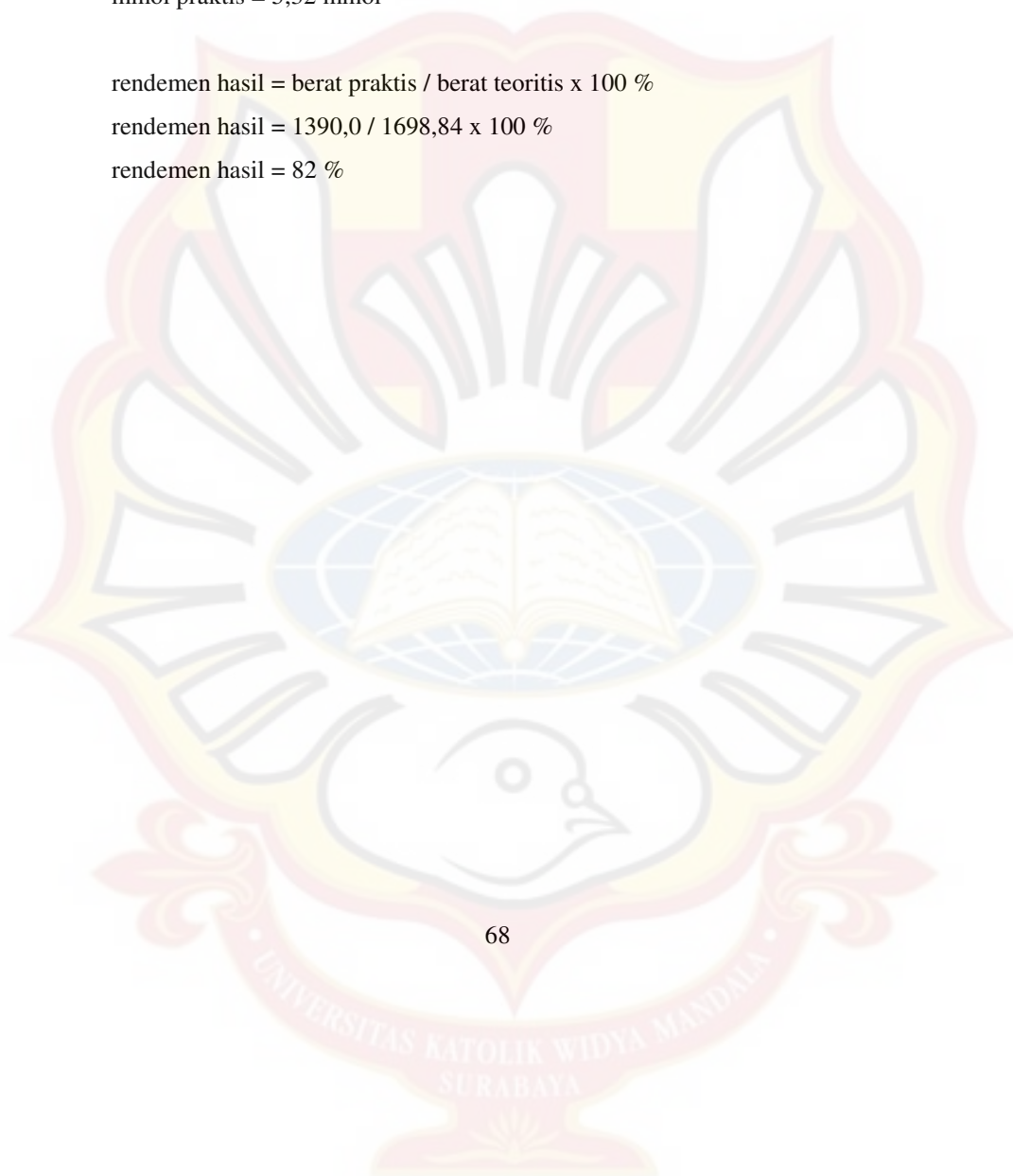
$$\text{mmol praktis} = 1390,0 / 261,36$$

$$\text{mmol praktis} = 5,32 \text{ mmol}$$

$$\text{rendemen hasil} = \text{berat praktis} / \text{berat teoritis} \times 100 \%$$

$$\text{rendemen hasil} = 1390,0 / 1698,84 \times 100 \%$$

$$\text{rendemen hasil} = 82 \%$$



LAMPIRAN E

CONTOH PERHITUNGAN BERAT TEORITIS 4-ALIL-6-(DIBUTILAMINO)METIL-2-METOKSIFENOL

$$\text{mg eugenol} = 1069 \text{ mg (MR = 164,20)}$$

$$m = n \times \text{MR}$$

$$1069 = n \times 164,20$$

$$n = 6,51 \text{ mmol}$$

$$\text{mg dibutilamina} = 1668,5 \text{ mg (MR = 129,24)}$$

$$m = n \times \text{MR}$$

$$1668,5 = n \times 129,24$$

$$n = 12,91 \text{ mmol}$$

$$\text{volume formalin} = 1,60 \text{ ml (MR = 30,03)}$$

$$\% \text{ kadar} = 37 \% \text{ b/v}$$

$$= \frac{37 \text{ gram}}{100 \text{ ml}} = \frac{37/30,03}{100 \text{ ml}} = \frac{1,23 \text{ mol}}{100 \text{ ml}}$$

$$= 12,30 \text{ mmol / ml}$$

$$\text{volume} = n / 12,30$$

$$1,60 = n / 12,30$$

$$n = 19,50 \text{ mmol}$$

$$n \text{ formalin} = 3 \times n$$

$$19,50 = 3 \times n$$

$$n = 6,50 \text{ mmol}$$

$$\text{mmol teoritis 4-alil-6-(dibutilamino)metil-2-metoksifenol} = \text{mmol eugenol} \\ = 6,51 \text{ (MR = 305,45)}$$

$$m \text{ teoritis} = n \times \text{MR}$$

$$m \text{ teoritis} = 6,51 \times 305,45$$

$$m \text{ teoritis} = 1988,48 \text{ mg}$$

LAMPIRAN F

CONTOH PERHITUNGAN RENDEMEN HASIL SINTESIS 4-ALIL-6-(DIBUTILAMINO)METIL-2-METOKSIFENOL

$$m \text{ praktis} = 1008,0 \text{ mg}$$

$$MR = 305,45$$

$$\text{mmol praktis} = m / MR$$

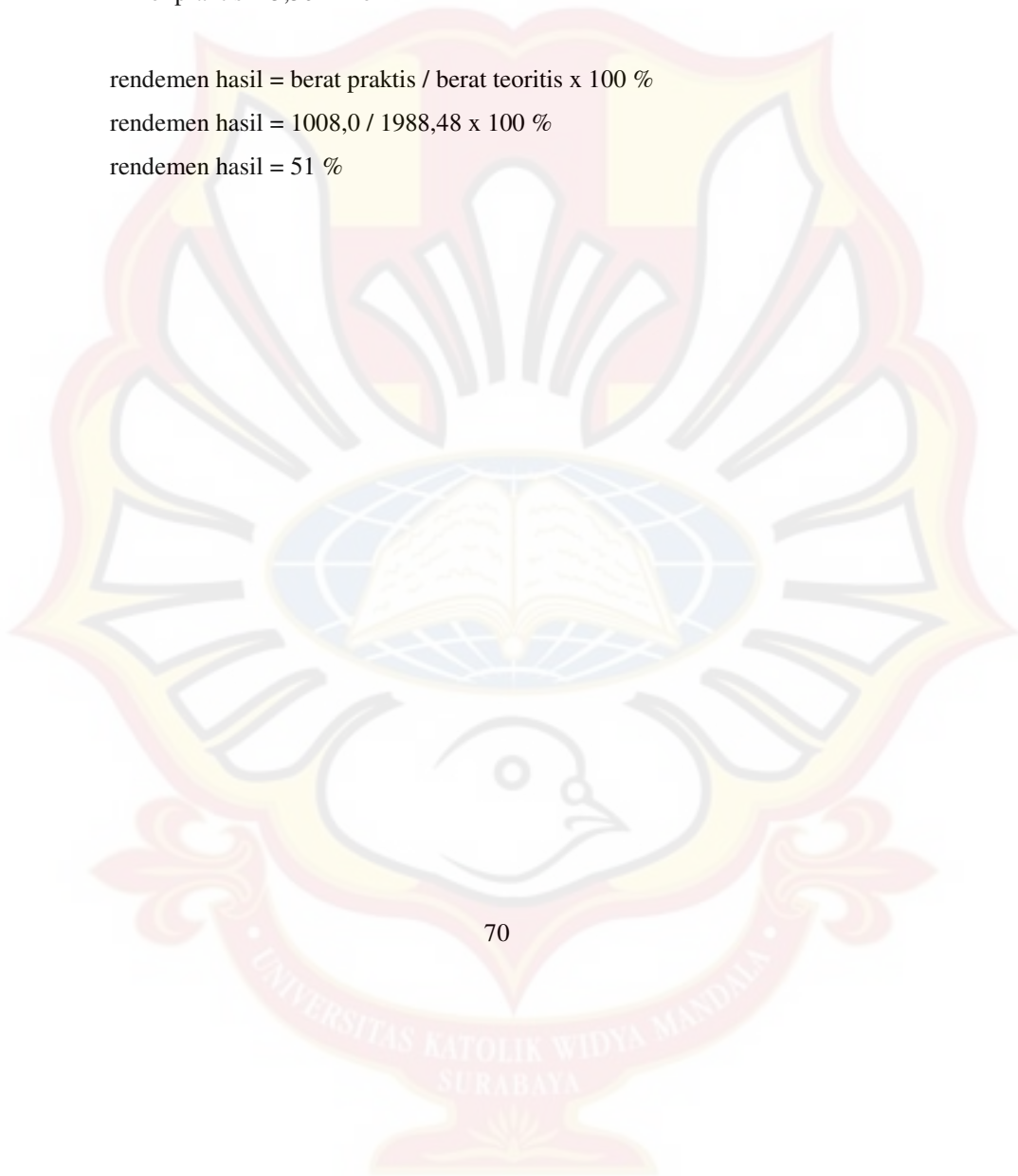
$$\text{mmol praktis} = 1008,0 / 305,45$$

$$\text{mmol praktis} = 3,30 \text{ mmol}$$

$$\text{rendemen hasil} = \text{berat praktis} / \text{berat teoritis} \times 100 \%$$

$$\text{rendemen hasil} = 1008,0 / 1988,48 \times 100 \%$$

$$\text{rendemen hasil} = 51 \%$$



LAMPIRAN G
GAMBAR SEPERANGKAT ALAT REFLUKS



LAMPIRAN H
GAMBAR SEPERANGKAT ALAT KROMATOGRAFI KOLOM

