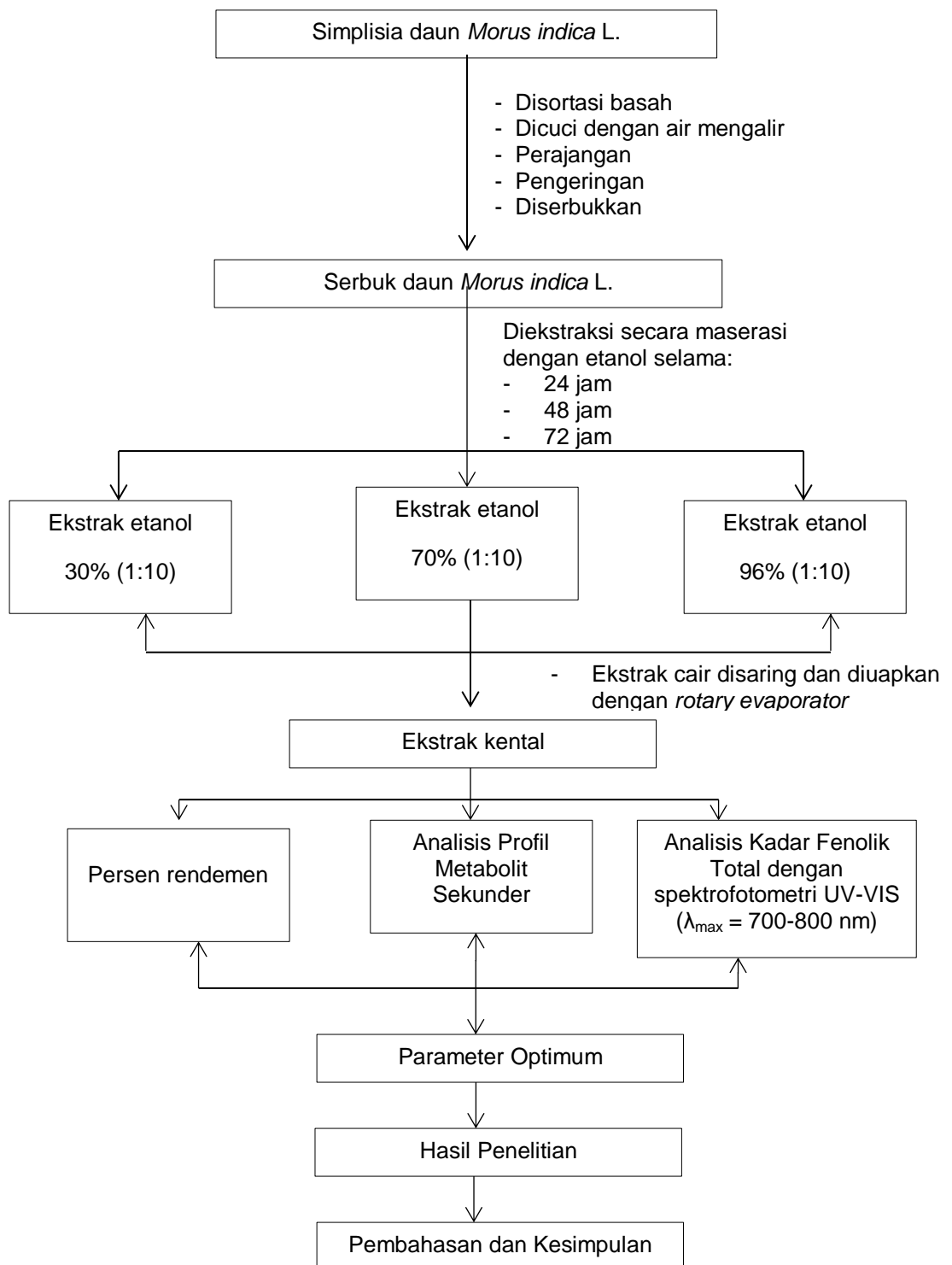


## DAFTAR PUSTAKA

- Andallu B, Suryakantham V, Lakshmi B, Reddy GK. 2001. Effect of mulberry (*Morus indica* L.) therapy on plasma and erythrocyte membrane lipids in patients with type 2 diabetes. *ClinChimActa*, 314:47-53
- Bajpai, Saurabh., A. Vijaya Bhaskara Rao., M. Muthukumar dan K. Nagalakshamma. 2012.. History and active pharmacokinetic principles of mulberry: a review. *IOSR Journal of Pharmacy*. ISSN: 2250-3013, Vol. 2, Issue 4.
- Balai Persuteraan Alam. 2010. *Statistik Pengembangan Persuteraan Alam Tahun 2010*. Departemen Kehutanan Direktorat Jenderal Rehabilitasi Lahan dan Perhutanan Sosial: Bili-Bili.
- Baz, Deniz dan Ismail H. Boyacı. 2007. Modeling and optimization I: Usability of response surface methodology. *Journal of Food Engineering* 78 (2007) 836–845.
- Boro, H., Das, S., Middha, S.K., 2021. The therapeutic potential and the health benefits of *Morus indica* Linn.: a mini review. *Advances in Traditional Medicine* 21, 241–252.
- Chatterjee, G.K., Burman, T.K., Nagchaudhuri, A.K., Pal, S.P., 1983. Antiinflammatory and antipyretic activities of *Morus indica*. *Planta Medica* 48, 116–119.
- Delouee, Saeedeh Arabshahi dan Asna Urooj. 2006. Antioxidant properties of various solvent extracts of mulberry (*Morus indica* L.) leaves. *Food Chemistry*, 102, 1233–1240.
- Departemen Kesehatan RI, 2000. *Parameter Standar Umum Ekstrak Tumbuhan Obat*. Jakarta.
- Departemen Kesehatan RI, 2017. *Pemanfaatan Tanaman Obat*. Direktorat Jenderal Pengawasan Obat dan Makanan. Jakarta.
- Hussain, F., Rana, Z., Shafique, H., Malik, A., Hussain, Z., 2017. Phytopharmacological potential of different species of *Morus alba* and their bioactive phytochemicals : A review *Asian Pacific Journal of Tropical Biomedicine* 7, 950–956.
- Iriawan, N. dan Astuti, S.P. 2006. *Mengolah Data Statistik dengan Mudah Menggunakan Minitab 14*. Yogyakarta : Penerbit Andi.

# LAMPIRAN

## Lampiran 1. Skema Kerja Penelitian



## Lampiran 5. Perhitungan

### Lampiran 5.1 Rendemen

#### Replikasi 1

**A1:** Rendemen ekstrak 3:10

$$\% \text{ Rendemen} = \frac{\text{Bobot ekstrak}(g)}{\text{Bobot Simplisia}(g)} \times 100$$

$$\begin{aligned} \% \text{ Rendemen} &= \frac{95,2281 - 93,3661 (g)}{30,0012 (g)} \times 100 \% \\ &= \frac{1,8620}{30,0012} \times 100 \% = 6,2064\% \end{aligned}$$

$$\mathbf{B1:} \% \text{ Rendemen} = \frac{0,3502}{20,0212} \times 100 \% = 1,7591\%$$

$$\mathbf{C1:} \% \text{ Rendemen} = \frac{1,3271}{10,0108} \times 100 \% = 13,2567\%$$

$$\mathbf{D1:} \% \text{ Rendemen} = \frac{2,2248}{20,0042} \times 100 \% = 11,1217\%$$

$$\mathbf{E1:} \% \text{ Rendemen} = \frac{0,9831}{10,0114} \times 100 \% = 9,8198\%$$

$$\mathbf{G1:} \% \text{ Rendemen} = \frac{1,9979}{10,0041} \times 100 \% = 19,9708\%$$

$$\mathbf{H1:} \% \text{ Rendemen} = \frac{1,7395}{20,0119} \times 100 \% = 8,6923\%$$

$$\mathbf{I1:} \% \text{ Rendemen} = \frac{2,3649}{20,0017} \times 100 \% = 11,8235\%$$

$$\mathbf{J1:} \% \text{ Rendemen} = \frac{2,5760}{20,0171} \times 100 \% = 12,8690\%$$

$$\mathbf{K1:} \% \text{ Rendemen} = \frac{1,0049}{20,0201} \times 100 \% = 5,0195\%$$

$$\mathbf{L1:} \% \text{ Rendemen} = \frac{0,1733}{20,0053} \times 100 \% = 0,8663\%$$

$$\mathbf{M1:} \% \text{ Rendemen} = \frac{2,2389}{30,0211} \times 100 \% = 7,4577\%$$

$$\mathbf{N1:} \% \text{ Rendemen} = \frac{1,3850}{10,0101} \times 100 \% = 13,8350\%$$

$$\mathbf{O1:} \% \text{ Rendemen} = \frac{1,5837}{30,0031} \times 100 \% = 5,2785\%$$

## Lampiran 5.2 Kadar Fenolik Total Spektrofotometri UV-Vis

### Replikasi 1.

Persamaan:  $y = 0,01204x - 0,00215$

Keterangan:

y = serapan

x = konsentrasi

- a. Untuk sampel (A1) rasio simplisia dan pelarut 3:10, lama ekstraksi 72 jam, dan konsentrasi pelarut 70% diperoleh serapan 0,277 bpj.

Sehingga, untuk mendapatkan konsentrasi:

$$0,277 \text{ bpj} = 0,01204x - 0,00215$$

$$x = \frac{0,277 + 0,00215}{0,01204}$$

$$x = 23,185 \text{ bpj}$$

Kadar Fenolik

$$\text{Kadar} = \frac{x \cdot v \cdot fp}{g}$$

$$\text{Kadar} = \frac{23,185 \cdot 0,01 \cdot 10}{0,01}$$

$$\text{Kadar} = 231,85 \text{ mg/g}$$

- b. Untuk sampel (B1) rasio simplisia dan pelarut 2:10, lama ekstraksi 24 jam, dan konsentrasi pelarut 30% diperoleh serapan 0,239 bpj.

Sehingga, untuk mendapatkan konsentrasi:

$$0,239 \text{ bpj} = 0,01204x - 0,00215$$

$$x = \frac{0,239 + 0,00215}{0,01204}$$

$$x = 20,029 \text{ bpj}$$