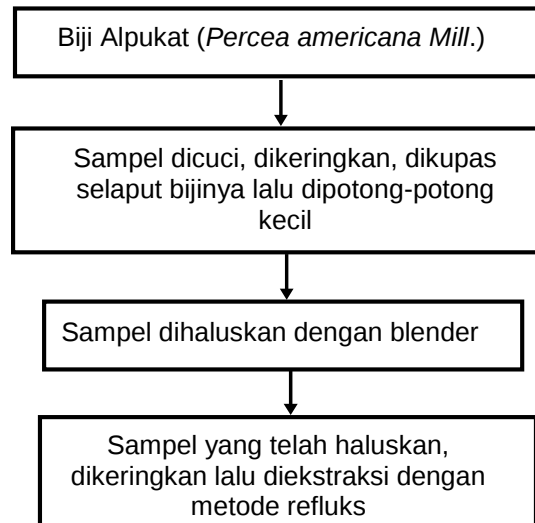
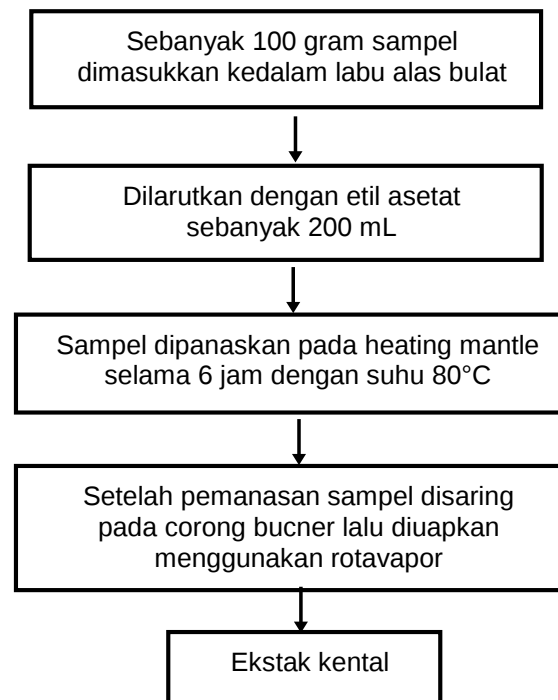


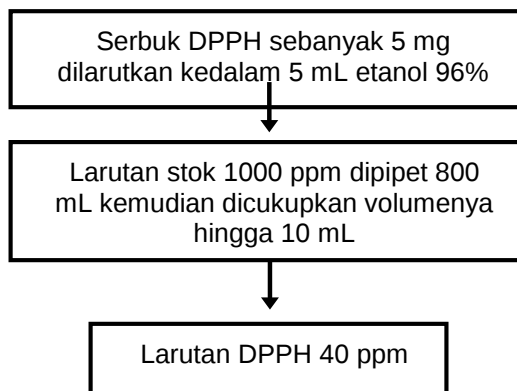
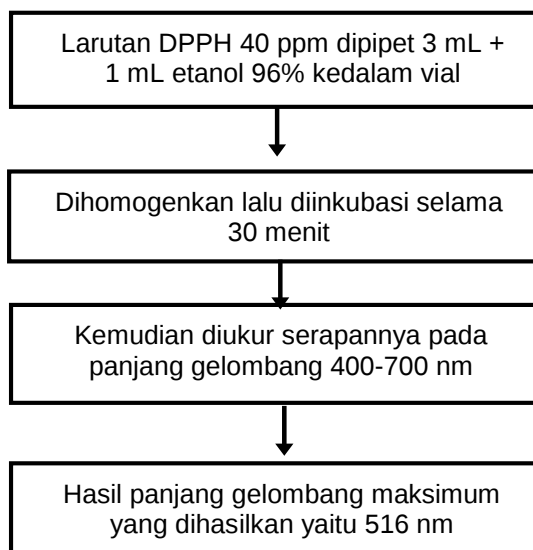
LAMPIRAN

Lampiran 1. Skema kerja pengolahan biji alpukat

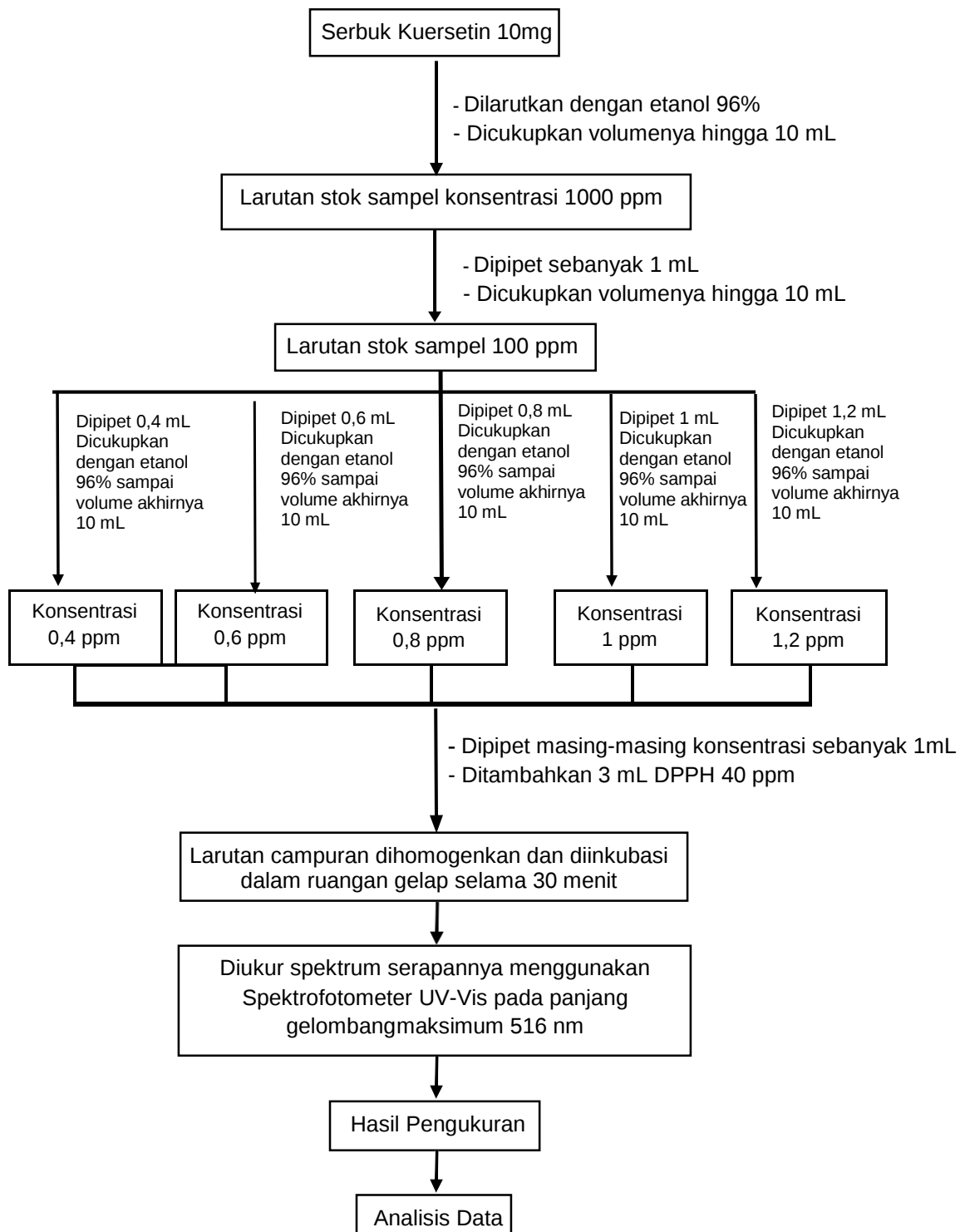


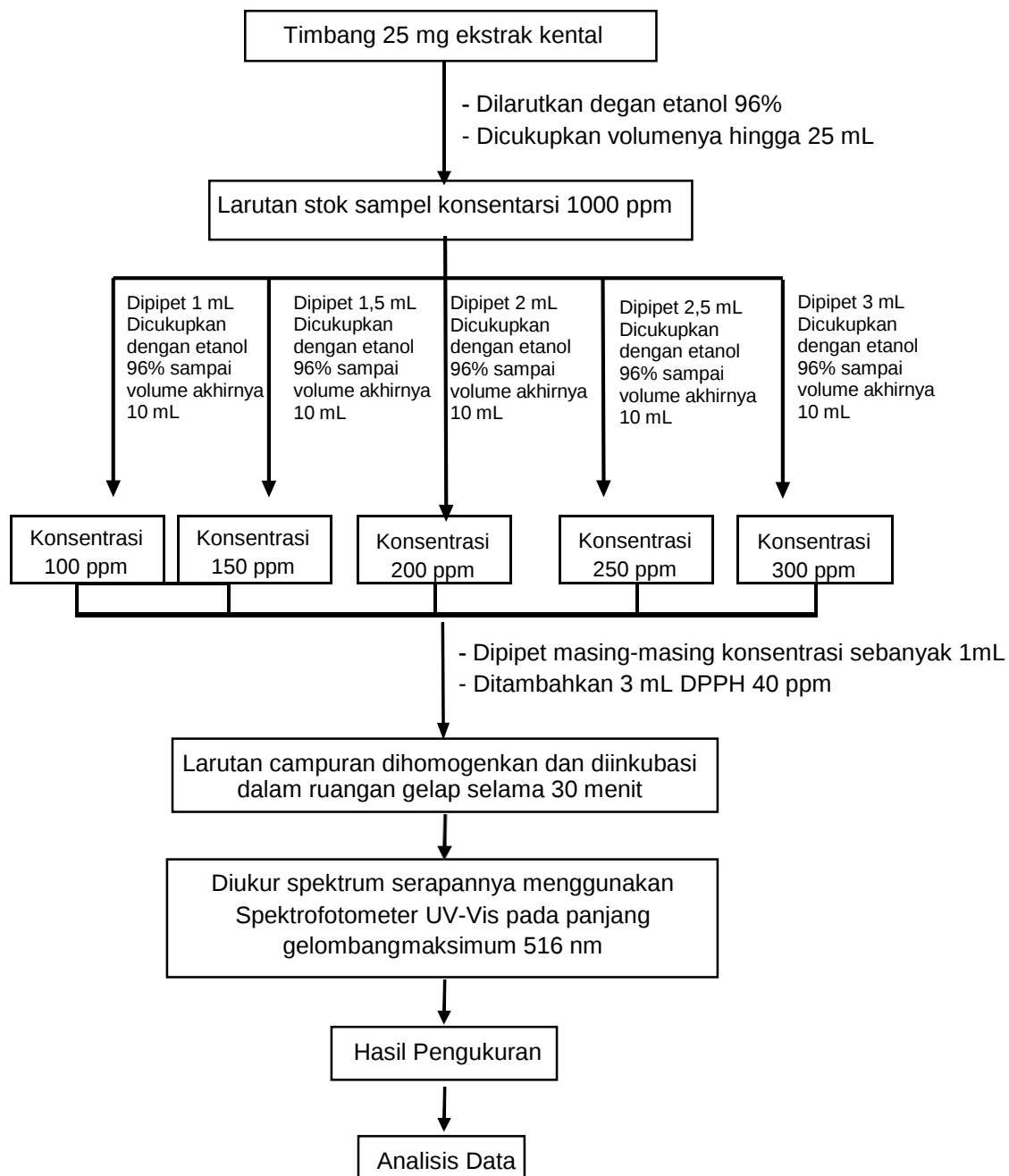
Lampiran 2. Skema kerja ekstraksi metode refluks biji alpukat



Lampiran 3. Skema Kerja Pengujian Aktivitas Antioksidan**a. Pembuatan Larutan DPPH 40 ppm****b. Pembuatan Larutan Blanko DPPH dan Pengukuran Panjang Gelombang Maksimum Larutan DPPH**

c. Pengujian aktivitas antioksidan Kuersetin



d. Pengujian aktivitas antioksidan ekstrak biji alpukat (*Persea americana* Mill.)

Lampiran 4. Perhitungan Persen Rendamen

$$\begin{aligned}\% \text{ Rendamen} &= \frac{\text{Berat ekstrak}}{\text{Berat simplisia}} \times 100 \% \\ &= \frac{0,0098 \text{ g}}{100 \text{ g}} \times 100 \% \\ &= 0,98\%\end{aligned}$$

Lampiran 5. Perhitungan % Inhibisi dan IC_{50}

a. Baku kuersetin

$$0,4 \text{ ppm} = \frac{0,641-0,571}{0,641} \times 100 \% = 10,920\%$$

$$0,6 \text{ ppm} = \frac{0,641-0,562}{0,641} \times 100 \% = 12,324\%$$

$$0,8 \text{ ppm} = \frac{0,641-0,554}{0,641} \times 100 \% = 13,572\%$$

$$1 \text{ ppm} = \frac{0,641-0,548}{0,641} \times 100 \% = 14,508\%$$

$$1,2 \text{ ppm} = \frac{0,641-0,540}{0,641} \times 100 \% = 15,756\%$$

$$\text{Dik : } y = 5,9282x + 8,6739$$

$$\text{Dimana, } a = 8,6739$$

$$b = 5,9282$$

$$r = 0,997$$

$$\text{sehingga, } y = bx - a$$

$$50 = 5,9282x + 8,6739$$

$$x = \frac{50-8,6739}{5,9282}$$

$$IC_{50} = 6,971 \mu\text{g/mL}$$

b. ekstrak etil asetat biji alpukat (*Persea americana Mill.*)

$$100 \text{ ppm} = \frac{0,707-0,555}{0,707} \times 100 \% = 21,499\%$$

$$150 \text{ ppm} = \frac{0,707-0,543}{0,707} \times 100 \% = 23,196\%$$

$$200 \text{ ppm} = \frac{0,707-0,532}{0,707} \times 100 \% = 24,752\%$$

$$250 \text{ ppm} = \frac{0,707-0,517}{0,707} \times 100 \% = 26,874\%$$

$$300 \text{ ppm} = \frac{0,707-0,505}{0,707} \times 100 \% = 28,571\%$$

$$\text{Dik : } y = 0,0356x + 17,85$$

$$\text{Dimana, } a = 0,0356x$$

$$b = 17,85$$

$$r = 0,998$$

$$\text{sehingga, } y = bx - a$$

$$50 = 0,0356x + 17,85$$

$$x = \frac{50-17,85}{0,0356}$$

$$\text{IC}_{50} = 903,08$$

Lampiran 6. Sampel Tanaman Alpukat



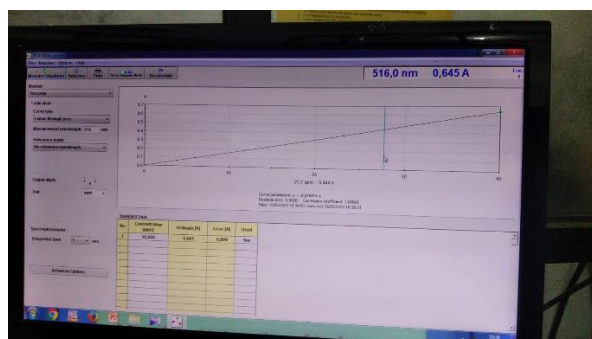
(a)



(b)

Gambar 1. (a) Foto tanaman Alpukat dan (b) Foto biji alpukat (*Persea americana* Mill.)

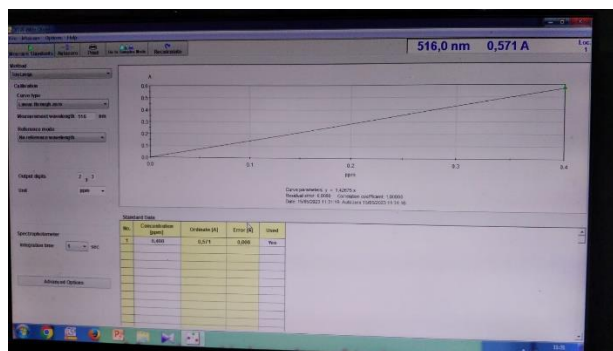
Lampiran 7. Pengukuran Aktivitas Antioksidan Kuersetin



Gambar 2. Pengukuran panjang gelombang maksimum kuersetin



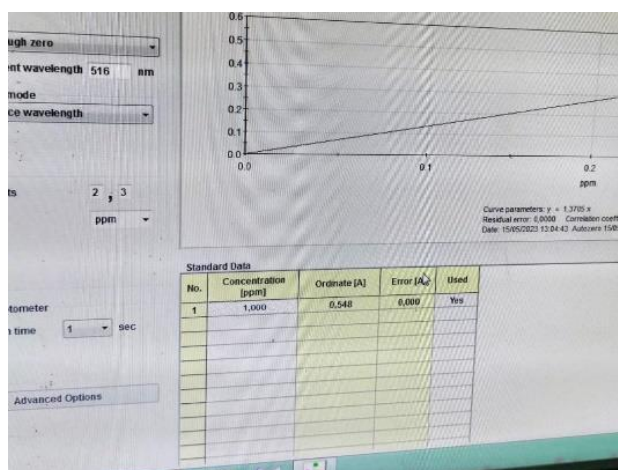
Gambar 3. Pengukuran aktivitas antioksidan kuersetin konsentrasi 0,4 ppm



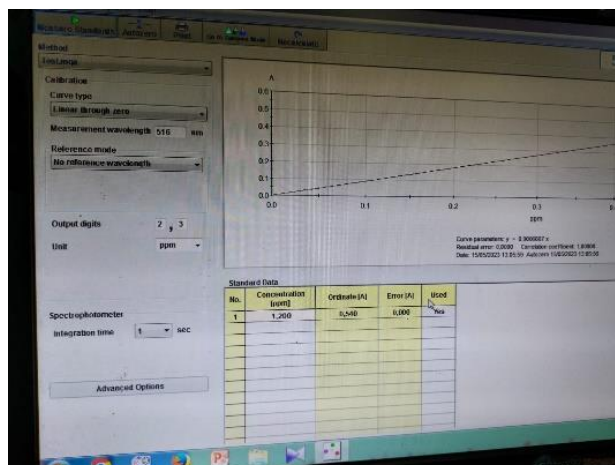
Gambar 4. Pengukuran aktivitas antioksidan kuersetin konsentrasi 0,6 ppm



Gambar 5. Pengukuran aktivitas antioksidan kuersetin konsentrasi 0,8 ppm

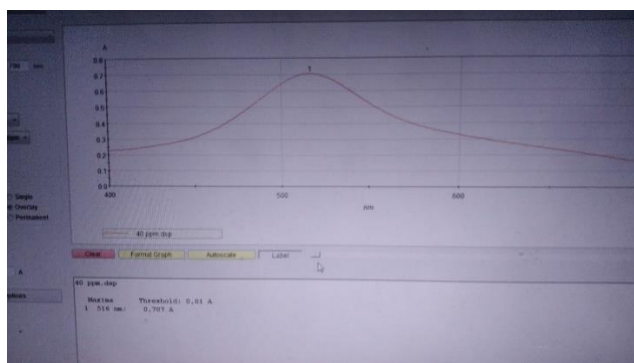


Gambar 6. Pengukuran aktivitas antioksidan kuersetin konsentrasi 1 ppm



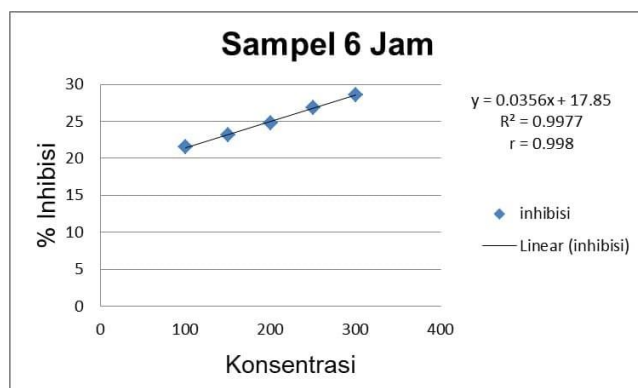
Gambar 7. Pengukuran aktivitas antioksidan kuersetin konsentrasi 1,2 ppm

Lampiran 8. Penentuan Panjang Gelombang Maksimum Ekstrak Etil Asetat Biji Alpukat (*Persea americana Mill.*)



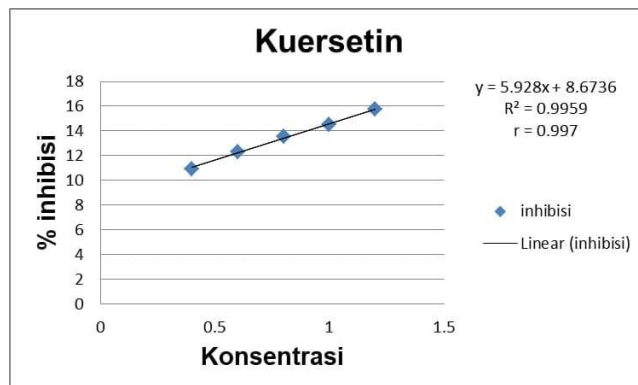
Gambar 8 . Pengukuran panjang gelombang maksimum DPPH

Lampiran 9. Grafik Hubungan Antara Konsentrasi Ekstrak Etil Asetat (*Persea americana Mill.*) Dengan Persen Pengikatan DPPH



Gambar 13. Grafik sampel 6 jam

Lampiran 10. Grafik Hubungan Antara Konsentrasi Baku Kuersetin Dengan Persen Pengikata DPPH



Gambar 14. Grafik baku pembanding kuersetin