

### **Lampiran 1 Perhitungan Indeks Polaritas Pelarut Etanol 80%**

Diketahui : Etanol = 80%  $\approx$  0,8

$$\text{Air} = 20\% \approx 0,2$$

$$\text{Indeks Polaritas Etanol (IP}_{\text{etanol}}) = 4,3$$

Ditanya : IP<sub>etanol 80%</sub>...?

$$\text{Jawab : IP}_{\text{etanol 80\%}} = 0,8 \times \text{IP}_{\text{etanol}} \times 0,2$$

$$= 0,8 \times 4,3 \times 0,2$$

$$= 0,688$$

Jadi, indeks polaritas etanol 80% sebesar **0,688**

### **Lampiran 2 Perhitungan Indeks Polaritas Pelarut Metanol 80%**

Diketahui : Metanol = 80%  $\approx$  0,8

$$\text{Air} = 20\% \approx 0,2$$

$$\text{Indeks Polaritas Metanol (IP}_{\text{metanol}}) = 5,1$$

Ditanya : IP<sub>metanol 80%</sub>...?

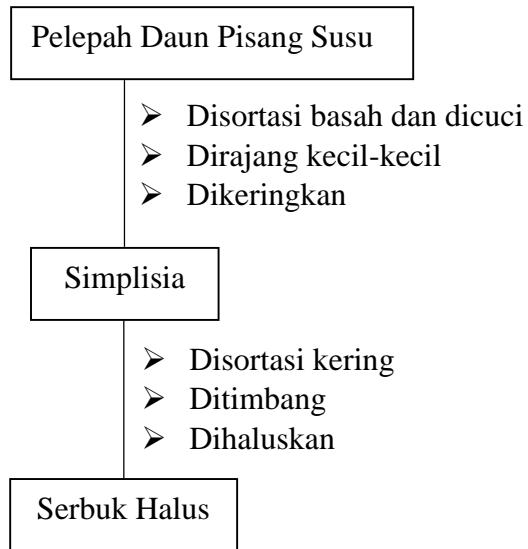
$$\text{Jawab : IP}_{\text{metanol 80\%}} = 0,8 \times \text{IP}_{\text{metanol}} \times 0,2$$

$$= 0,8 \times 5,1 \times 0,2$$

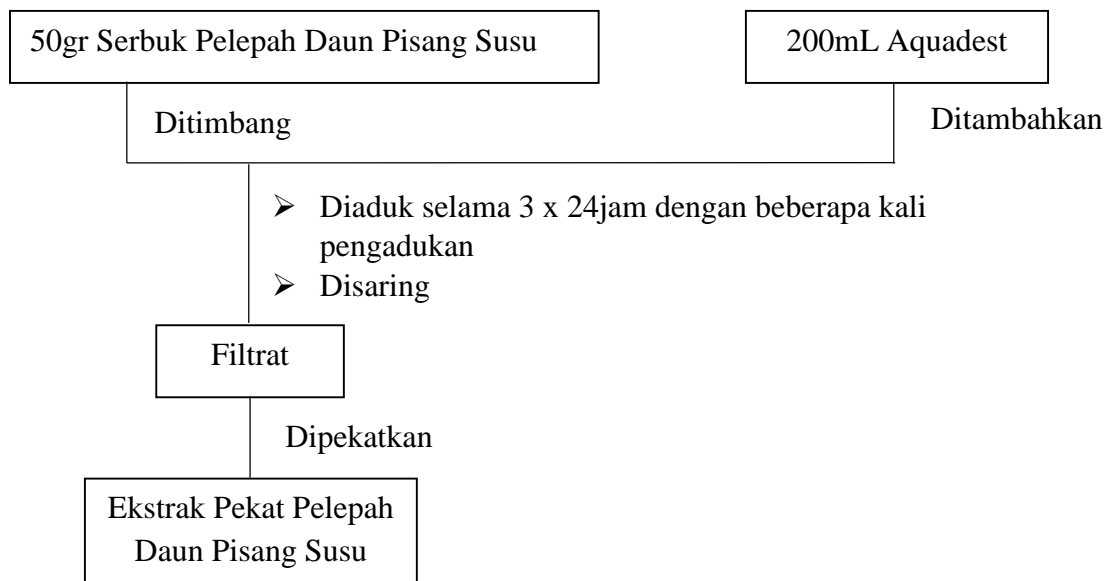
$$= 0,816$$

Jadi, indeks polaritas metanol 80% sebesar **0,816**

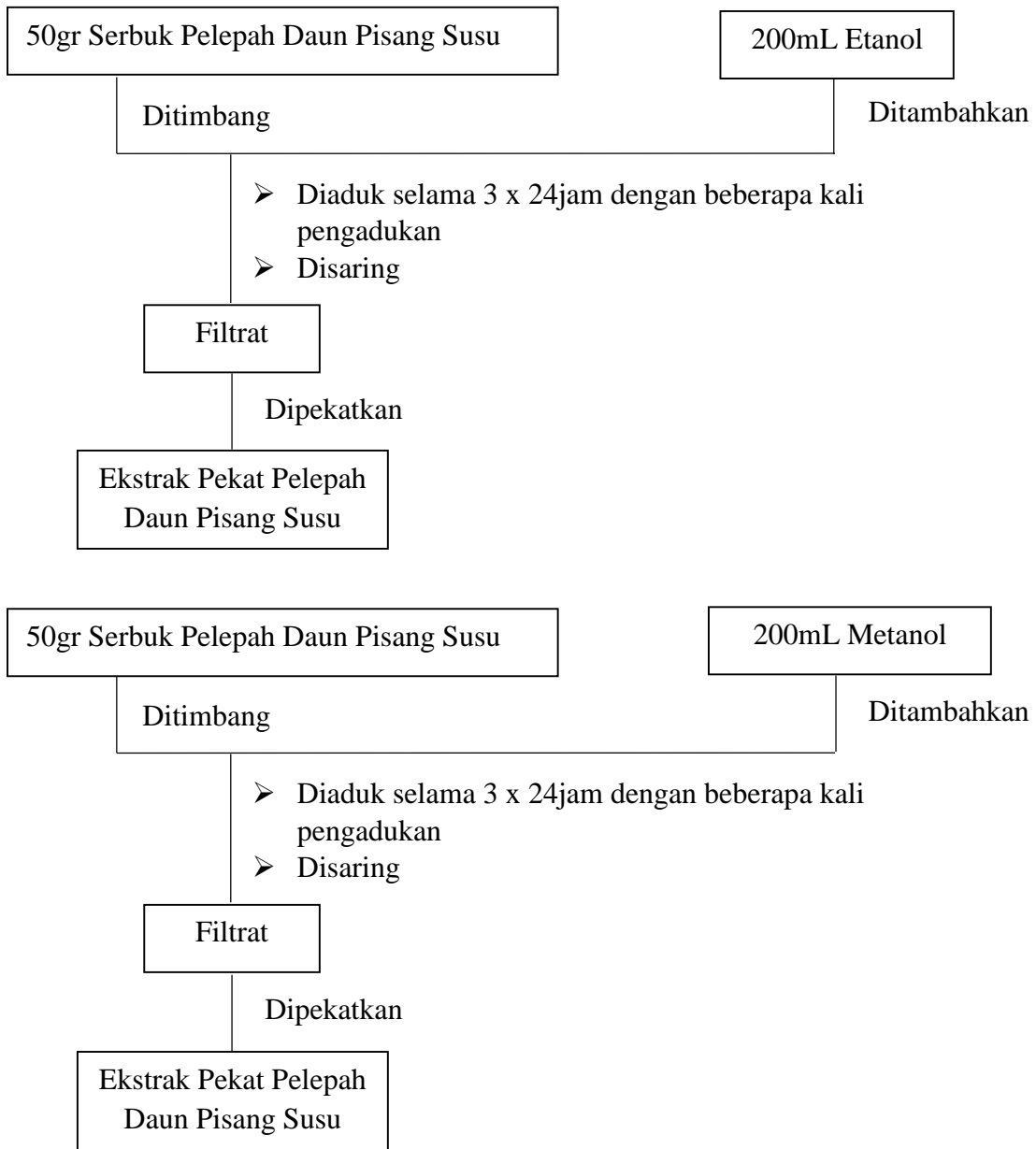
### Lampiran 3 Skema Preparasi Sampel Pelepah Daun Pisang Susu



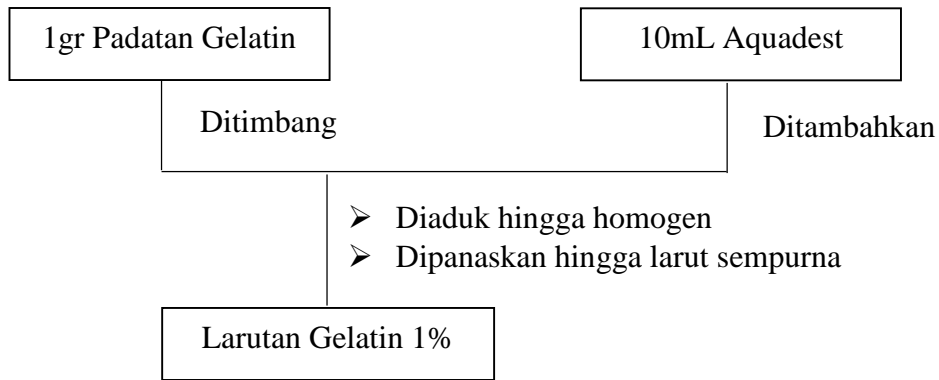
### Lampiran 4 Skema Ekstraksi Maserasi



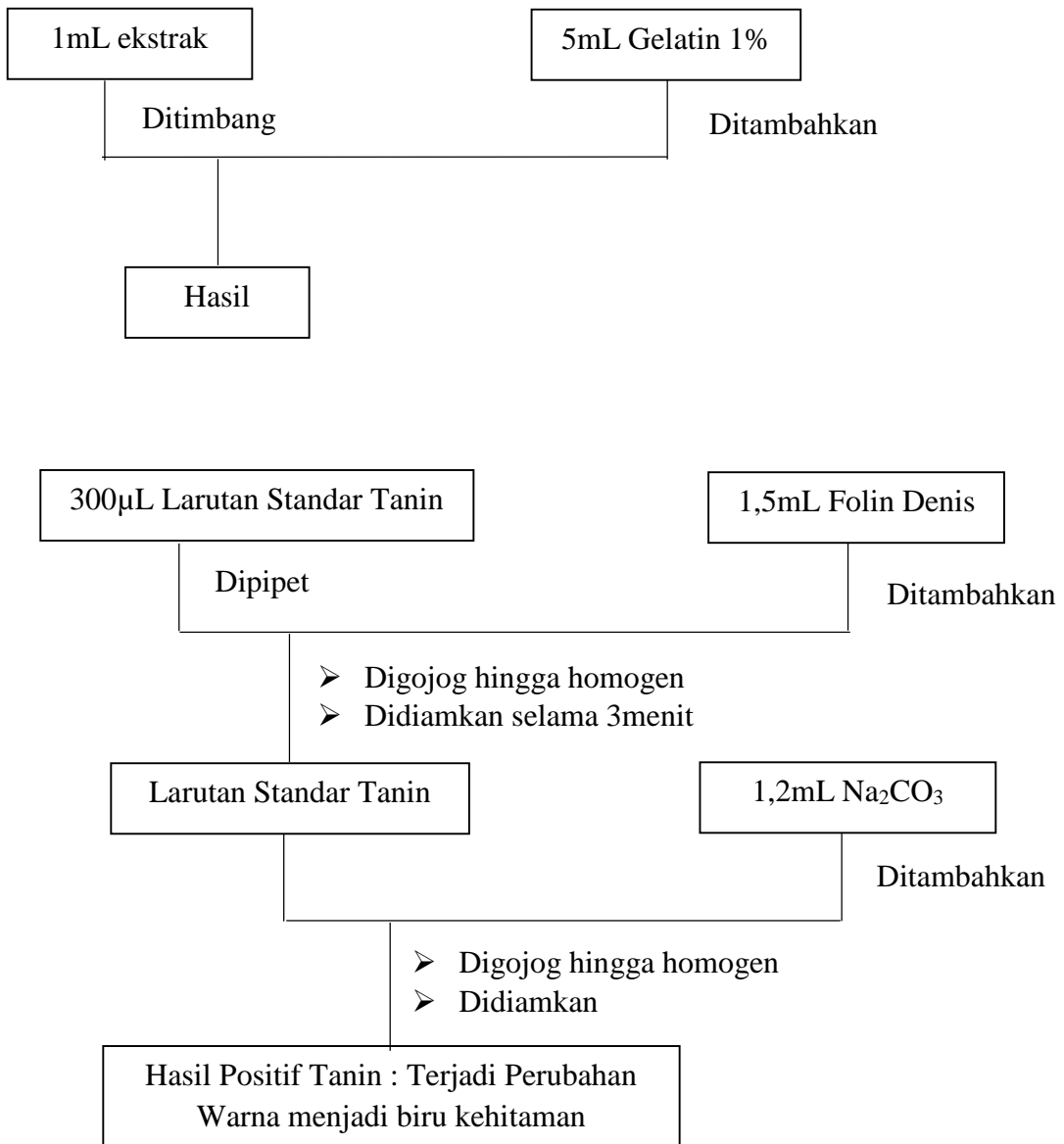
**(Lanjutan) Lampiran 4. Skema Ekstraksi Maserasi**



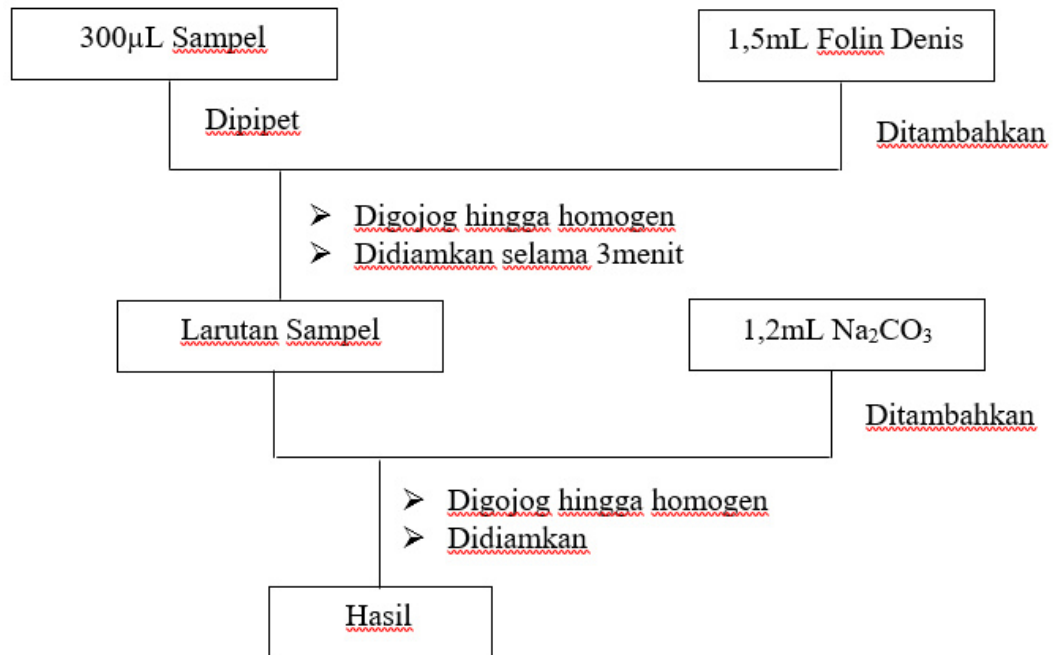
### Lampiran 5 Skema Pembuatan Larutan Gelatin 1%



### Lampiran 6 Skema Uji Kualitatif Tanin



(Lanjutan) Lampiran 6. Uji Kualitatif Tanin



Lampiran 7 Gambar Indeks Polaritas Pelarut

Tabel I. Indeks polaritas larutan kimia (Snyder, 1978)

Solvent	$P'$	$x_c$	$x_d$	$x_n$
<i>n</i> -Hexane	0.1			
Cyclohexane	0.2			
Carbon sulfide	0.3			
Carbon tetrachloride	1.6			
Isopropyl ether	2.4	0.48	0.14	0.38
Toluene	2.4	0.25	0.28	0.47
Chlorobenzene	2.7	0.23	0.33	0.44
Benzene	2.7	0.23	0.32	0.45
Diethyl ether	2.8	0.53	0.13	0.34
Chloroform	4.1	0.25	0.41	0.33
Dichloromethane	3.1	0.29	0.18	0.53
Tetrahydrofuran	4.0	0.38	0.20	0.42
1,2-Dichloroethane	3.5	0.30	0.21	0.49
Ethyl methyl ketone	4.7	0.35	0.22	0.43
Acetone	5.1	0.35	0.23	0.42
Dioxane	4.8	0.36	0.24	0.40
Ethyl acetate	4.4	0.34	0.23	0.43
Dimethylsulfoxide	7.2	0.39	0.23	0.39
Aniline	6.3	0.32	0.32	0.36
Nitromethane	6.0	0.28	0.31	0.40
Acetonitrile	5.8	0.31	0.27	0.42
Pyridine	5.3	0.41	0.22	0.36
2-Propanol	3.9	0.55	0.19	0.27
Ethanol	4.3	0.52	0.19	0.29
Methanol	5.1	0.48	0.22	0.31
Ethylene glycol	6.9	0.43	0.29	0.28
Acetic acid	6.0	0.39	0.31	0.30
Water	10.2	0.37	0.37	0.25

## Lampiran 8 Gambar Konstanta Dielektrik Pelarut

Tabel I. Nilai konstanta dielektrik berbagai zat pelarut (Stahl, 1985).

Konstanta Dielektrik	Pelarut	Polaritas
1,890	Petroleum eter	Non-polar ↓ Polar
2,023	Sikloheksana	
2,238	Karbon tetraklorida	
2,284	Toluene	
2,284	Benzene	
4,806	Diklorometan	
4,806	Kloroform	
4,340	Etileter	
6,020	Etilasetat	
20,700	Aseton	
24,300	n-propanol	Polar
33,620	etanol	
80,370	metanol	
	air	