

LAMPIRAN

Lampiran 1. Uji Kualitatif Kandungan Merkuri



KI ditimbang ± 2 g



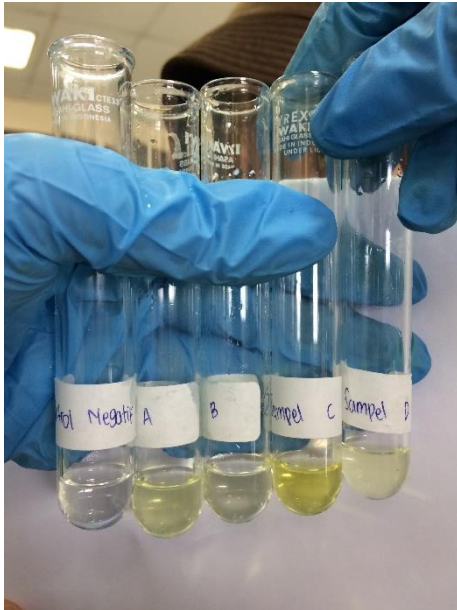
KI di larutkan dalam 25 ml aquadest



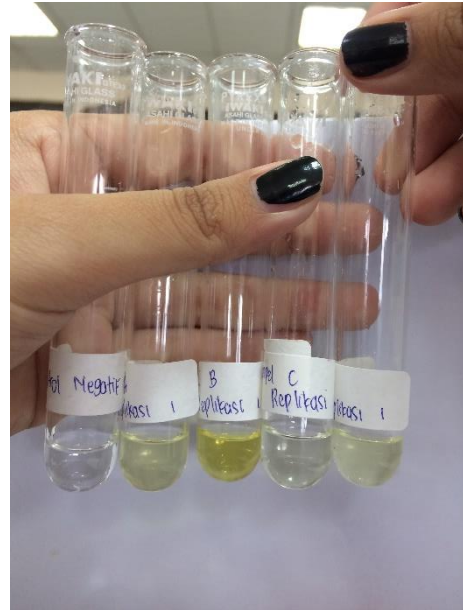
Sampel dipanaskan diatas kompor



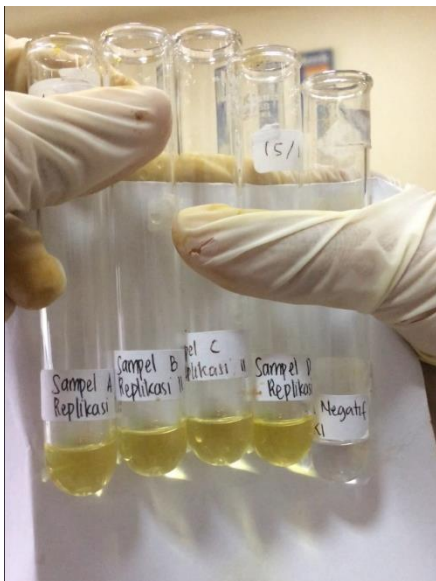
Penyaringan larutan uji



Hasil uji kandungan merkuri



Hasil uji kandungan merkuri replikasi I



Hasil uji merkuri replikasi II



Hasil uji merkuri replikasi III

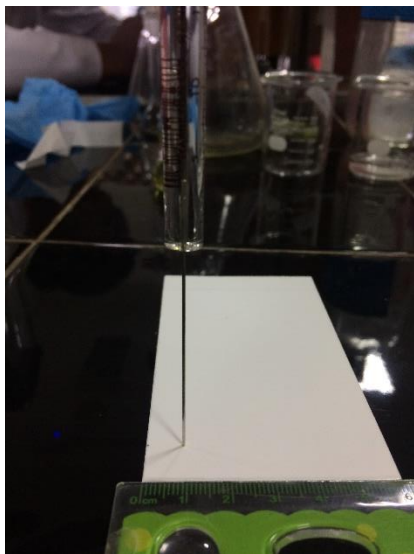
Lampiran 2. Uji Kualitatif Kandungan Asam Retinoat dan Hidrokuinon



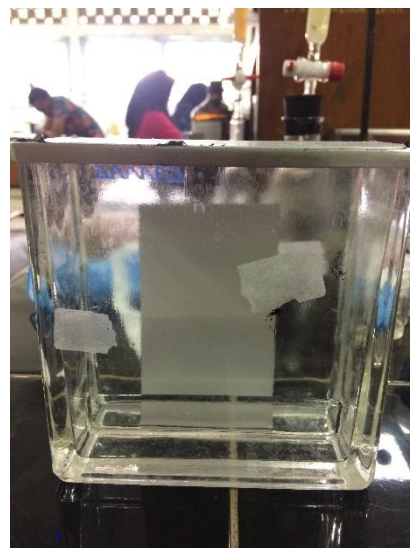
Baku hidrokuinon dan asam retinoat



Larutan baku hidrokuinon dan asam retinoat



Penotolan sampel pada plat klt



Plat KLT pada fase gerak



Sampel yang akan dianalisis

Lampiran 3. Perhitungan Bahan

a. Perhitungan gram KI

Akan dibuat larutan KI 0,5 N dalam 25 ml aquadest

$$N = \frac{\text{gram}}{MR} \times \frac{1000}{\text{vol}}$$

$$0,5 \text{ N} = \frac{x}{166} \times \frac{1000}{25}$$

$$1000 \cdot x = 166 \times 25 \times 0,5$$

$$X = \frac{2075}{1000}$$

$$X = 2,075 \text{ gram KI}$$

b. Pengenceran pada pembuatan fase gerak n-heksan:asam asetat glasial

0,33% dalam etanol p.a (9:1)

Asam asetat glasial 99% diencerkan menjadi 0,33%

$$M1 \cdot V1 = M2 \cdot V2$$

$$99\% \cdot V1 = 0,33\% \cdot 10 \text{ ml}$$

$$V1 = \frac{3,3}{99}$$

$V1 = 0,033 \text{ ml}$ (diambil 33 mikro asam asetat glasial campur dalam 10 ml etanol p.a)

Lampiran 4. Perhitungan Kadar Hidrokuinon

Untuk menghitung kadar hidrokuinon dalam sampel, digunakan persamaan sebagai berikut:

$$\% \text{ kadar hidrokuinon} = \frac{X \text{ (ppm)} \cdot \text{volume (L)}}{\text{bobot sampel (g)}} \times \text{fp (Gianti, 2013)}.$$

$$\text{Sampel A, \% kadar hidrokuinon} = \frac{219,5 \text{ ppm} \times 0,01 \text{ l}}{1 \text{ g}} \times 5$$

$$= 2,195 \times 5$$

$$= 10,975 \%$$

$$\text{Sampel D, \% kadar hidrokuinon} = \frac{106,7 \text{ ppm} \times 0,01 \text{ l}}{1 \text{ g}} \times 5$$

$$= 1,067 \times 5$$

$$= 5,335 \%$$

Lampiran 5. Luas Area Sampel A dan D

Result data sampel A

No.	R.T. (min.)	Area (uv*sec)	Area%	Height (mv)	Height%	Conc.	Conc. %	Conc. Unit	Base Code	Theoretical Plates	Tailing Factor	Peak Name
1	6.638	118098	100.000	8.8717	100.000	0.0000	0.0000		PP	5752	1.688	
Total		118098		8.872		0.0000	0.0000					

Result data sampel D

No.	R.T. (min.)	Area (uv*sec)	Area%	Height (mv)	Height%	Conc.	Conc. %	Conc. Unit	Base Code	Theoretical Plates	Tailing Factor	Peak Name
1	6.635	65699	100.000	4.8643	100.000	0.0000	0.0000		PP	5637	1.687	
Total		65699		4.864		0.0000	0.0000					

Lampiran 6. Luas Area Untuk Kurva Baku

Result data 100 ppm

No.	R.T. (min.)	Area Area (uv*sec)	Area%	Height (mv)	Height%	Conc.	Conc. %	Conc. Unit	Base Code	Theoretical Plates	Tailin g Facto r	Pea k Nam e
1	6.622	65131	100.000	4.7554	100.000	0.0000	0.0000		PP	5405	1.614	
Total		65131		4.755		0.0000	0.0000					

Result data 200 ppm

No.	R.T. (min.)	Area (uv*sec)	Area%	Height (mv)	Height%	Conc.	Conc. %	Conc. Unit	Base Code	Theoretical Plates	Tailing Factor	Peak Name
1	6.605	106936	100.000	7.7996	100.000	0.0000	0.0000		PP	5327	1.596	
Total		106936		7.800		0.0000	0.0000					

Result data 300 ppm

No.	R.T. (min.)	Area (uv*sec)	Area%	Height (mv)	Height%	Conc.	Conc. %	Conc. Unit	Base Code	Theoretical Plates	Tailing Factor	Peak Name
1	6.605	156263	100.000	11.2199	100.000	0.0000	0.0000		PP	5180	1.584	
Total		156263		11.220		0.0000	0.0000					

Result data 400 ppm

No.	R.T. (min.)	Area (uv*sec)	Area%	Height (mv)	Height%	Conc.	Conc. %	Conc. Unit	Base Code	Theoretical Plates	Tailing Factor	Peak Name
1	6.602	196262	100.000	14.3208	100.000	0.0000	0.0000		PP	5373	1.567	
Total		196262		14.321		0.0000	0.0000					

Result data 500 ppm

No.	R.T. (min.)	Area (uv*sec)	Area%	Height (mv)	Height%	Conc.	Conc. %	Conc. Unit	Base Code	Theoretical Plates	Tailing Factor	Peak Name
1	6.605	252825	100.000	18.0991	100.000	0.0000	0.0000		PP	5180	1.516	
Total		252825		18.099		0.0000	0.0000					