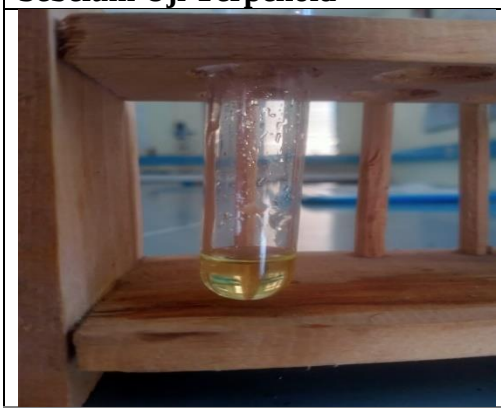
LAMPIRAN

Lampiran 1 Skrining Fitokimia

Sebelum Uji Flavonoid	Sesudah uji flavonoid
	
Sebelum Uji Terpenoid	**Sesudah uji Terpenoid**
	

Lampiran 2 Perhitungan Pembuatan Nanoemulsi

A. Perhitungan Pembuatan Smik

1. Smik 4:1 (30 ml)

   Tween 80 $= \frac{4}{5} x\ 30\ ml$

   = 24 ml

   PEG 400 $= \frac{1}{5} x\ 30\ ml$

   = 6 ml

   Total = 24 ml + 6 ml

   = 30 ml

2. Smik 5:1 (30ml)

Tween 80 $= \frac{5}{6} x\ 30\ ml$

= 25 ml

PEG 400 $= \frac{1}{6} x\ 30\ ml$

= 5 ml

Total = 25 ml + 5 ml

=30 ml

B. Pembuatan Nanoemulsi

1. Nanoemulsi 4:1 8% (20ml)

Minyak biji labu kuning 8% $= \frac{8}{100} x\ 20\ ml$

= 1,6 gram

Smik 34% $= \frac{34}{100} x\ 20\ ml$

= 6,8 gram

Aquades 58% $= \frac{58}{100} x\ 20\ ml$

= 11,6 ml

Total = 1,6 + 6,8 + 11,6

= 20 gram/ml

2. Nanoemulsi 4:1 16%

Minyak biji labu kuning 16% $= \frac{16}{100} x\ 20\ ml$

= 3,2 gram

Smik 4% $= \frac{4}{100} x\ 20\ ml$

= 0,8 gram

Aquades 80% $= \frac{80}{100} x\ 20\ ml$

= 16 ml

Total = 3,2 + 0,8 + 16

= 20 gram/ml

3. Nanoemulsi 5:1 8%

Minyak biji labu kuning 8% $= \frac{8}{100} x\ 20\ ml$

= 1,6 gram

Smik 34% $= \frac{34}{100} x\ 20\ ml$

= 6,8 gram

Aquades 58% $= \frac{16}{100} x\ 20\ ml$

= 11,6 ml

Total = 1,6 + 6,8 + 11,6
= 20 gram/ml

4. Nanoemulsi 5:1 16%

Minyak biji labu kuning 16% $= \frac{16}{100} x\ 20\ ml$

= 3,2 gram

Smik 4% $= \frac{4}{100} x\ 20\ ml$

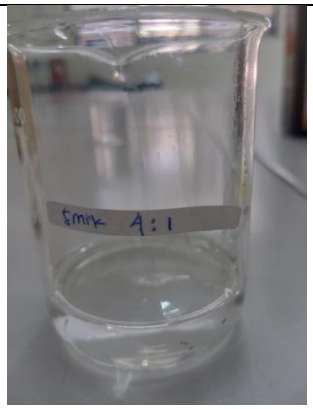
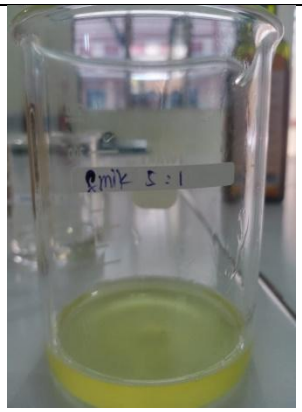
= 0,8 gram

Aquades 80% $= \frac{80}{100} x\ 20\ ml$

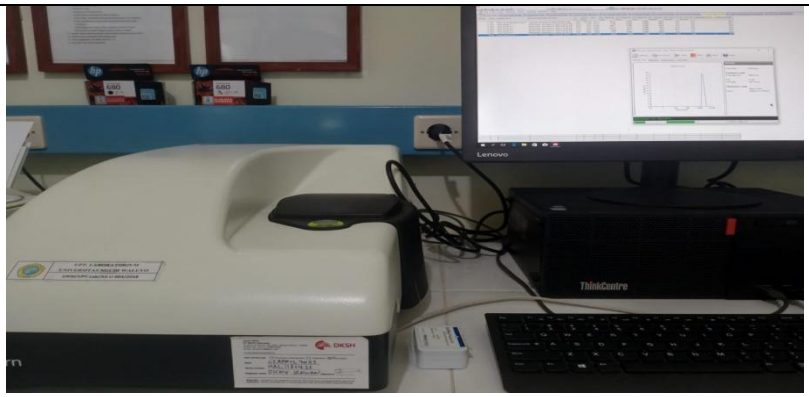
= 16 ml

Total = 3,2 + 0,8 + 16
= 20 ml

Lampiran 3 Pembutan Nanoemulsi

Pembutan smik	Hasil smik		Proses ultraturak
			
Sediaan Nanoemulsi			
			

Lampiran 4 Pengujian PSA Nanoemulsi

Pengujian Dengan PSA


Lampiran 5 Hasil Evaluasi Nanoemulsi

1. *Certificate Of Analysis*

PT. SARASWANTI INDO GENETECH

ONE STOP LABORATORY SERVICES

Result of Analysis

No : SIG.LHP.VII.2020.070583

No.	Parameter	Unit	Result	Limit Of Detection	Method
1	Lemak jenuh	%	17 73	-	18-6-1/MU/SMM-SIG (GC)
2	Natrium	mg / 100 g	8 60	-	18-13-1/MU/SMM-SIG (ICP OES)
3	Pb	mg / kg	Not detected	0 006	18-13-1/MU/SMM-SIG (ICP OES)
4	Sn	mg / kg	Not detected	0 2	18-13-1/MU/SMM-SIG (ICP OES)
5	As	mg / kg	Not detected	0 008	18-13-1/MU/SMM-SIG (ICP OES)
6	Cd	mg / kg	Not detected	0 00011	18-13-1/MU/SMM-SIG (ICP OES)
7	Hg	mg / kg	Not detected	0 004	18-13-1/MU/SMM-SIG (ICP OES)
8	Kadar Air (Karl Fischer)	%	0 06	-	18-11-44/MU/SMM-SIG
9	Karbohidrat	%	0	-	18-8-9 /MU/SMM-SIG
10	Protein	%	<0.04	-	18-8-31/MU/SMM - SIG (Kjeltec)

PT. SARASWANTI INDO GENETECH

ONE STOP LABORATORY SERVICES

Main Office and Laboratory: [illegible] INDONESIA
Jakarta Branch: Jl. Percetakan Negara No. 52 [illegible] Jakarta INDONESIA
Phone (Bogor) [illegible] (Jakarta) [illegible] (Surabaya) [illegible] (Semarang) [illegible] (Hunting) [illegible] Fax [illegible]
www.siglaboratory.com

No. [illegible]
Revisi 3

Result of Analysis

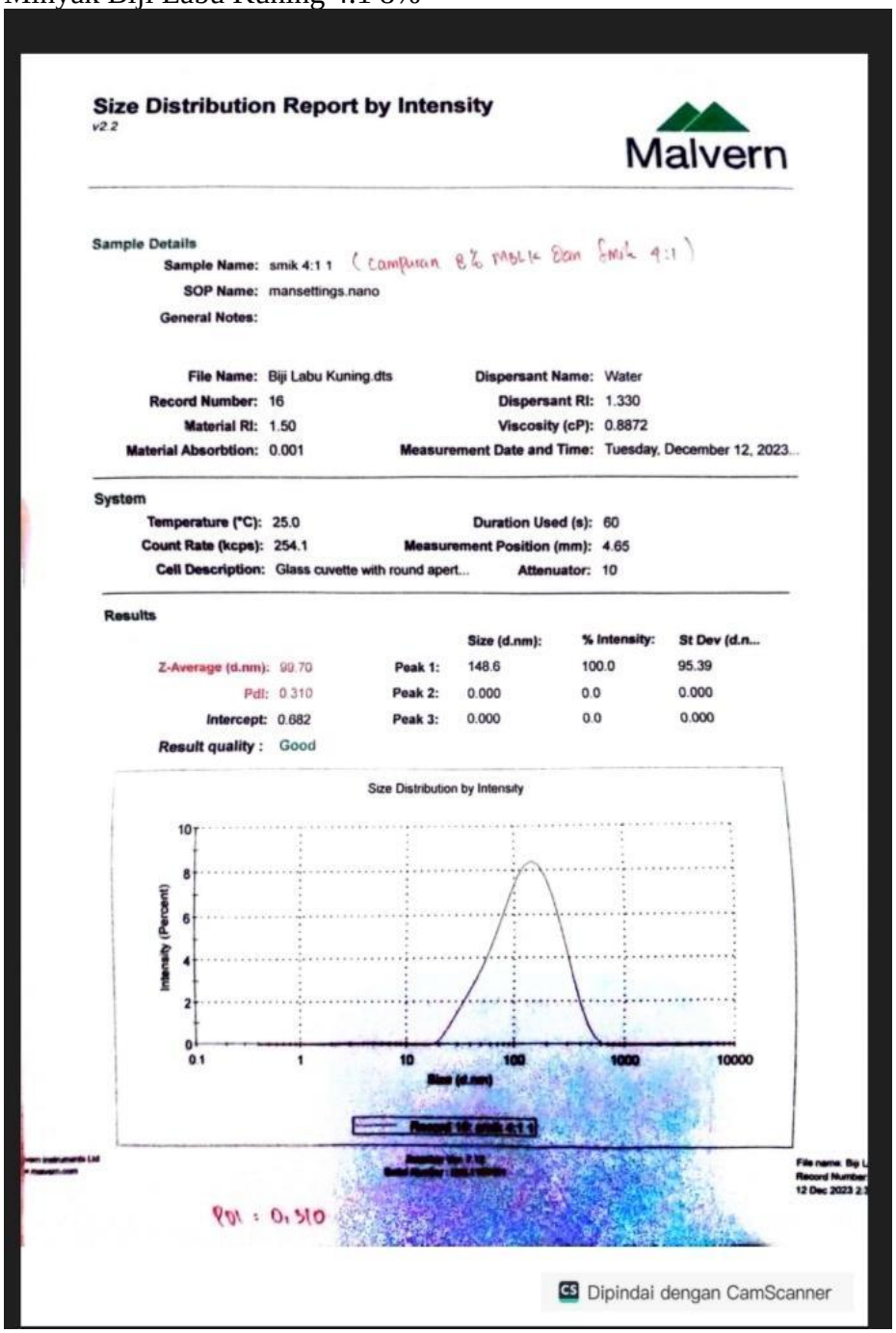
No : SIG.LHP.VII.2020.070583

No.	Parameter	Unit	Result	Limit Of Detection	Method
11	Lemak Total	%	99 94	-	18-8-19/MU/SMM-SIG
12	Energi Total	Kcal/100 g	899 46	-	Calculation
13	Asam Lemak Bebas	%	0 40	-	18-11-17/MU/SMM-SIG (Titrimetry)
14	Gula	%	Not detected	0 28	18-8-8/MU/SMM-SIG (Luff-Schoorl)

Bogor, 20 Juli 2020
PT Saraswanti Indo Genetech

Dwi Yulianto Laksono, S.Si
Manager Laboratorium

2. Ukuran Partikel dan Indeks Polidispersi
   a. Minyak Biji Labu Kuning 4:1 8%



Size Distribution Report by Intensity
v2.2

Malvern

Sample Details

Sample Name: smik 4:1 1 (campuran 8% minyak biji labu kuning 4:1)
SOP Name: mansettings.nano
General Notes:

File Name: Biji Labu Kuning.dts
Record Number: 16
Material RI: 1.50
Material Absorbtion: 0.001
Dispersant Name: Water
Dispersant RI: 1.330
Viscosity (cP): 0.8872
Measurement Date and Time: Tuesday, December 12, 2023...

System

Temperature (°C): 25.0
Count Rate (kcps): 254.1
Cell Description: Glass cuvette with round apert...
Duration Used (s): 60
Measurement Position (mm): 4.65
Attenuator: 10

Results

		Size (d.nm):	% Intensity:	St Dev (d.n...
Z-Average (d.nm): 99.70	Peak 1:	148.6	100.0	95.39
PdI: 0.310	Peak 2:	0.000	0.0	0.000
Intercept: 0.682	Peak 3:	0.000	0.0	0.000

Result quality : Good

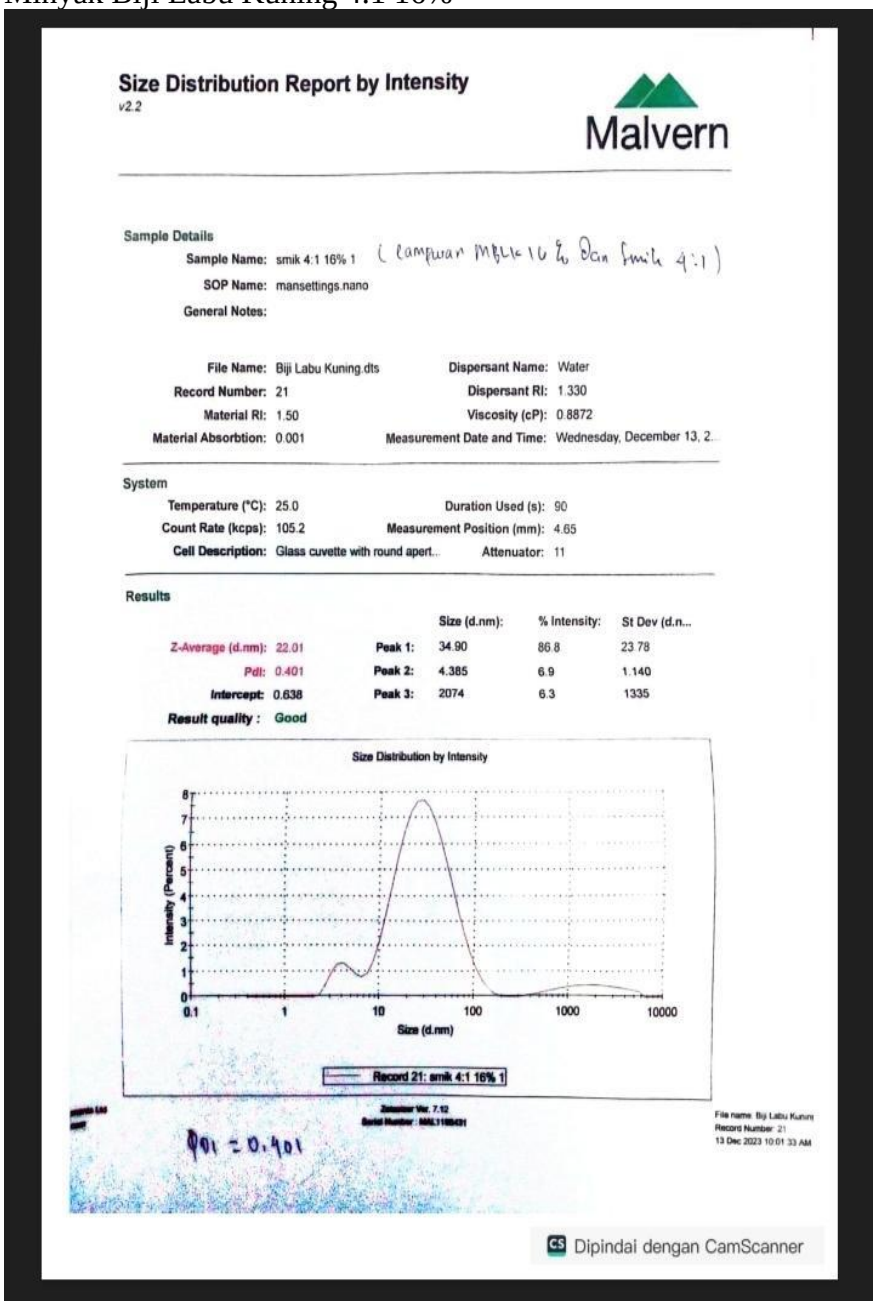
Size Distribution by Intensity

Intensity (Percent)
0
2
4
6
8
10
0.1
1
10
100
1000
10000

PdI : 0,310

Dipindai dengan CamScanner

b. Minyak Biji Labu Kuning 4:1 16%



Size Distribution Report by Intensity
v2.2

Malvern

Sample Details

Sample Name: smik 4:1 16% 1 (campuran MBLK 16 % dan Smik 4:1)
SOP Name: mansettings.nano
General Notes:

File Name: Biji Labu Kuning.dts
Record Number: 21
Material RI: 1.50
Material Absorbtion: 0.001
Dispersant Name: Water
Dispersant RI: 1.330
Viscosity (cP): 0.8872
Measurement Date and Time: Wednesday, December 13, 2...

System

Temperature (°C): 25.0
Count Rate (kcps): 105.2
Cell Description: Glass cuvette with round apert...
Duration Used (s): 90
Measurement Position (mm): 4.65
Attenuator: 11

Results

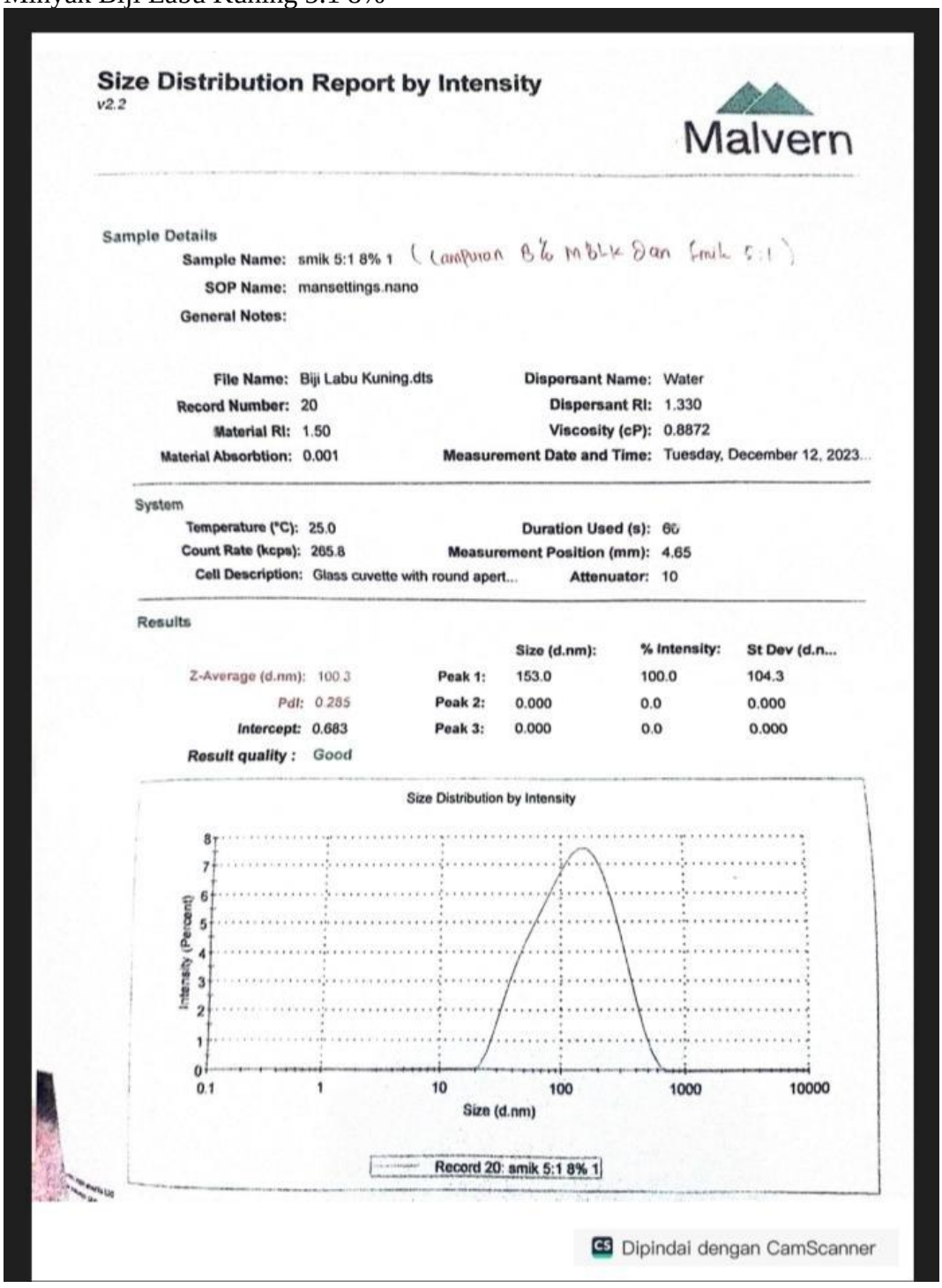
		Size (d.nm):	% Intensity:	St Dev (d.n...
Z-Average (d.nm): 22.01	Peak 1:	34.90	86.8	23.78
PdI: 0.401	Peak 2:	4.385	6.9	1.140
Intercept: 0.638	Peak 3:	2074	6.3	1335

Result quality : Good

PdI = 0.401

File name: Biji Labu Kuning
Record Number: 21
13 Dec 2023 10:01:33 AM

c. Minyak Biji Labu Kuning 5:1 8%



Size Distribution Report by Intensity

v2.2

Malvern

Sample Details

Sample Name: smik 5:1 8% 1 (campuran B% MBLK dan Smik 5:1)
SOP Name: mansettings.nano
General Notes:

File Name:	Biji Labu Kuning.dts	**Dispersant Name:**	Water
Record Number:	20	**Dispersant RI:**	1.330
Material RI:	1.50	**Viscosity (cP):**	0.8872
Material Absorbtion:	0.001	**Measurement Date and Time:**	Tuesday, December 12, 2023...

System

Temperature (°C):	25.0	**Duration Used (s):**	60
Count Rate (kcps):	265.8	**Measurement Position (mm):**	4.65
Cell Description:	Glass cuvette with round apert...	**Attenuator:**	10

Results

		Size (d.nm):	% Intensity:	St Dev (d.n...
Z-Average (d.nm): 100.3	**Peak 1:**	153.0	100.0	104.3
PdI: 0.285	**Peak 2:**	0.000	0.0	0.000
Intercept: 0.683	**Peak 3:**	0.000	0.0	0.000

Result quality : *Good*

d. Minyak Biji Labu Kuning 5:1 16%

Size Distribution Report by Intensity

v2.2

Malvern

Sample Details

Sample Name: smik 5:1 16% 1 (campuran 16% MBLK dan smik 5:1)
SOP Name: mansettings.nano
General Notes:

File Name: Biji Labu Kuning.dts
Record Number: 19
Material RI: 1.50
Material Absorbtion: 0.001
Dispersant Name: Water
Dispersant RI: 1.330
Viscosity (cP): 0.8872
Measurement Date and Time: Tuesday, December 12, 2023...

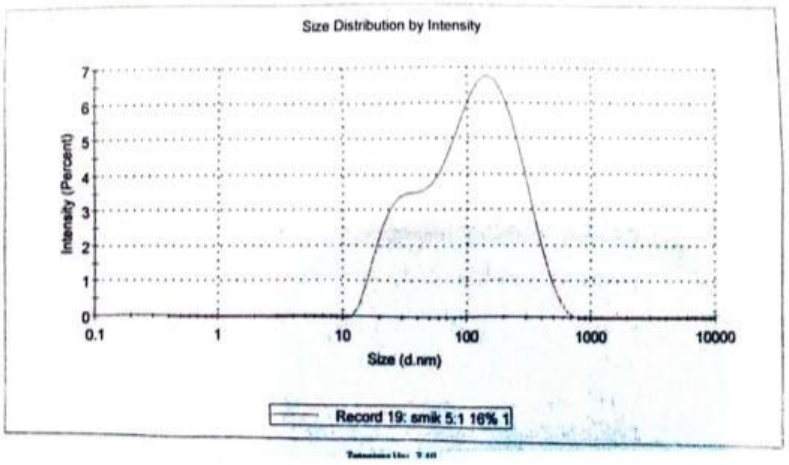
System

Temperature (°C): 25.0
Count Rate (kcps): 234.9
Cell Description: Glass cuvette with round apert...
Duration Used (s): 70
Measurement Position (mm): 4.65
Attenuator: 10

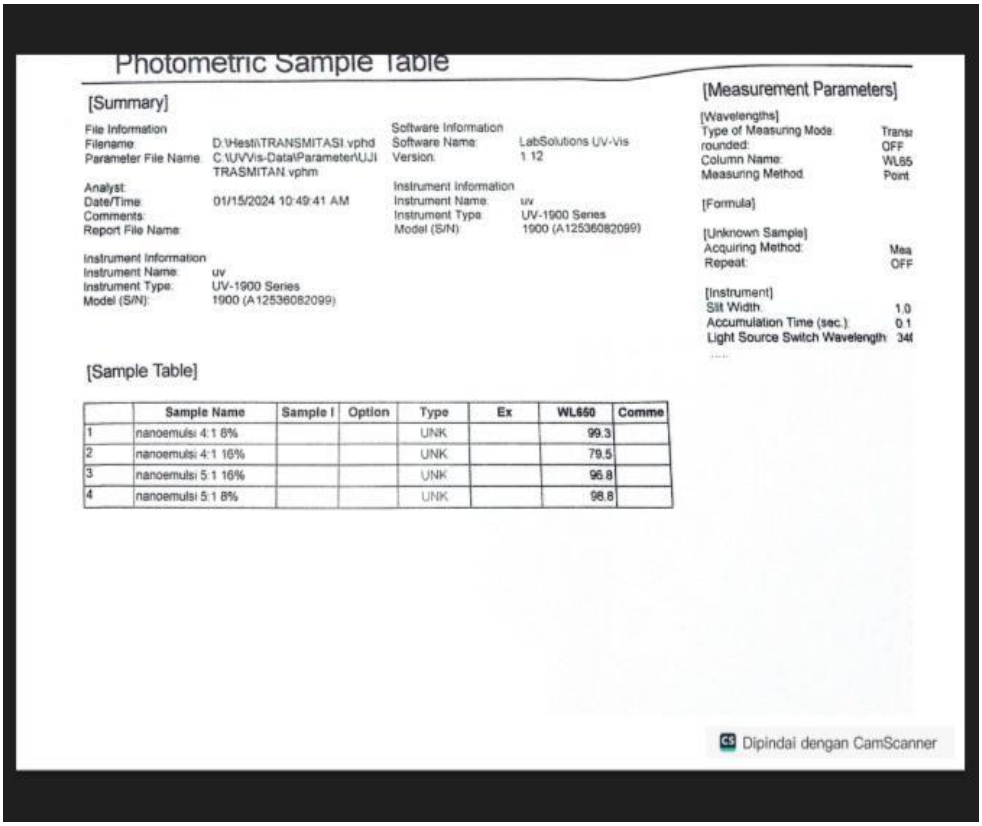
Results

		Size (d.nm):	% Intensity:	St Dev (d.n...
Z-Average (d.nm): 73.57	Peak 1:	136.1	100.0	107.8
PdI: 0.408	Peak 2:	0.000	0.0	0.000
Intercept: 0.676	Peak 3:	0.000	0.0	0.000

Result quality : Good



e. % Transmmittasi



Photometric Sample Table

[Summary]

File Information
Filename: D:\Hesti\TRANSMITASI.vphd
Parameter File Name: C:\UVVis-Data\Parameter\UJI TRASMITAN.vphm

Analyst:
Date/Time: 01/15/2024 10:49:41 AM
Comments:
Report File Name:

Instrument Information
Instrument Name: uv
Instrument Type: UV-1900 Series
Model (S/N): 1900 (A12536082099)

Software Information
Software Name: LabSolutions UV-Vis
Version: 1.12

Instrument Information
Instrument Name: uv
Instrument Type: UV-1900 Series
Model (S/N): 1900 (A12536082099)

[Measurement Parameters]

[Wavelengths]
Type of Measuring Mode: Trans
rounded: OFF
Column Name: WL65
Measuring Method: Point

[Formula]

[Unknown Sample]
Acquiring Method: Mea
Repeat: OFF

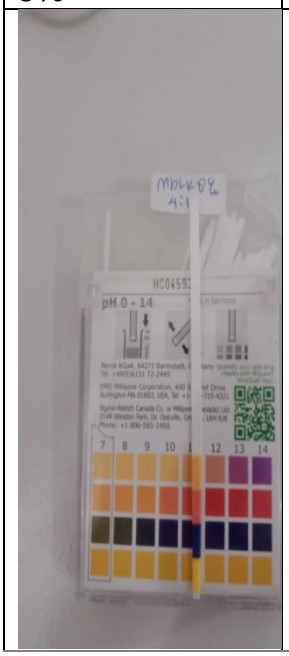
[Instrument]
Slit Width: 1.0
Accumulation Time (sec.): 0.1
Light Source Switch Wavelength: 340

[Sample Table]

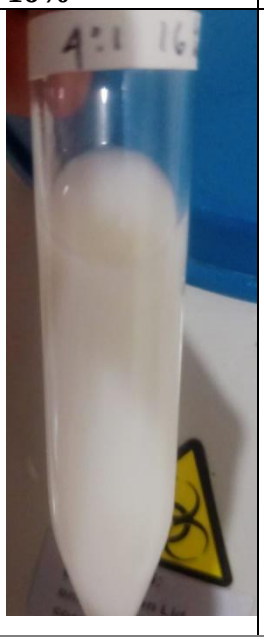
	Sample Name	Sample I	Option	Type	Ex	WL650	Comme
1	nanoemulsi 4:1 8%			UNK		99.3	
2	nanoemulsi 4:1 16%			UNK		79.5	
3	nanoemulsi 5:1 16%			UNK		96.8	
4	nanoemulsi 5:1 8%			UNK		98.8	

Dipindai dengan CamScanner

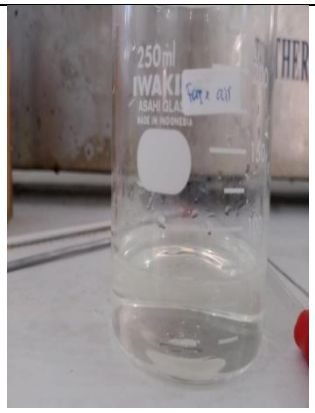
f. pH

Nanoemulsi 4:1 8%	Nanoemulsi 4:1 16%	Nanoemulsi 5:1 8%	Nanoemulsi 5:1 16%
			

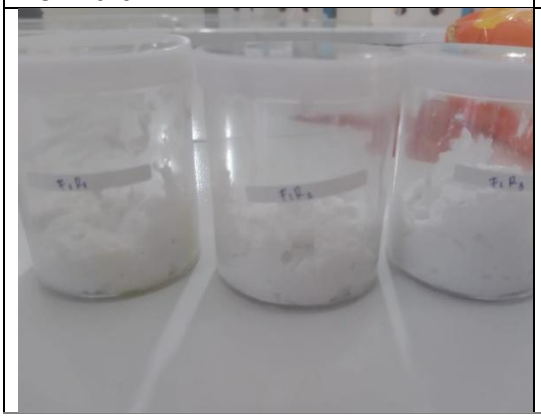
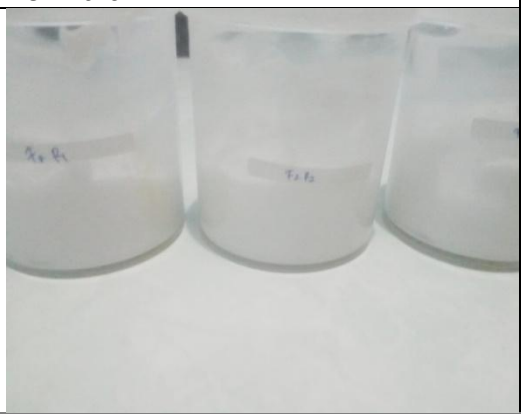
g. Sentrifugasi

Nanoemulsi 4:1 8%	Nanoemulsi 4:1 16%	Nanoemulsi 5:1 8%	Nanoemulsi 5:1 16%
			

Lampiran 6 Pembuatan Krim Nanoemulsi

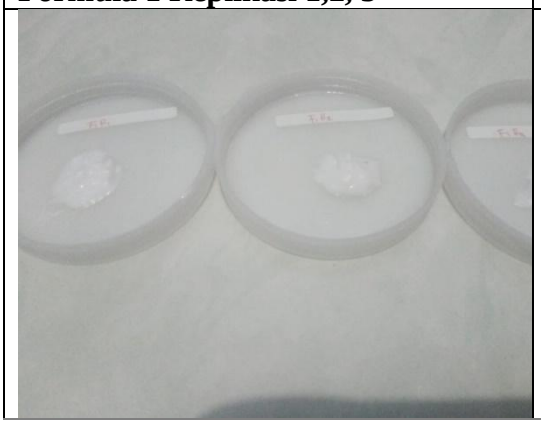
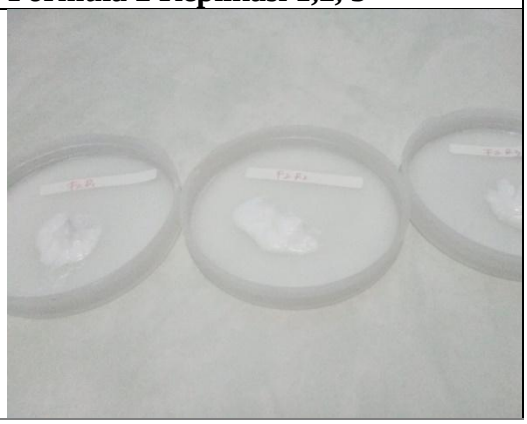
Bahan-bahan	Peleburan basis minyak	Fase air	Proses ultraturak menjadi sediaan krim
			

Lampiran 7 Pembuatan Krim Nanoemulsi

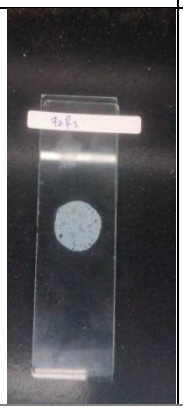
Formula 1	Formula 2
	

Lampiran 8 Hasil Evaluasi Krim Nanoemulsi Minyak Biji Labu Kuning

Organoleptis

Tipe Emulsi	
Formula 1 Replikasi 1,2, 3	**Formula 2 Replikasi 1,2, 3**
	

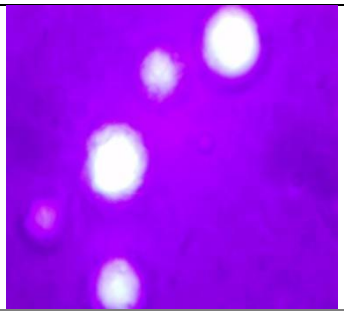
1. Homogenistas

Homogenitas					
F1R1	**F1R2**	**F1R3**	**F2R1**	**F2R2**	**F2R3**
					

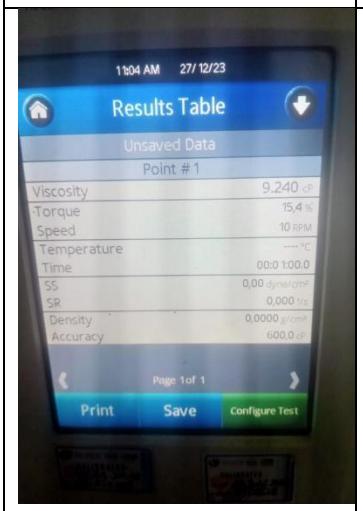
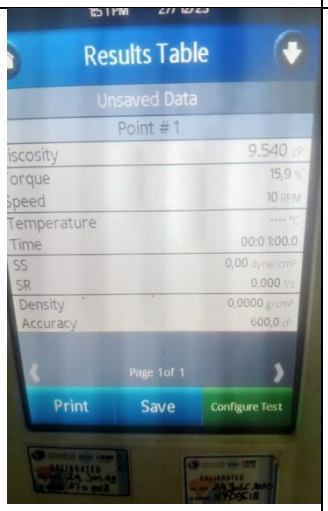
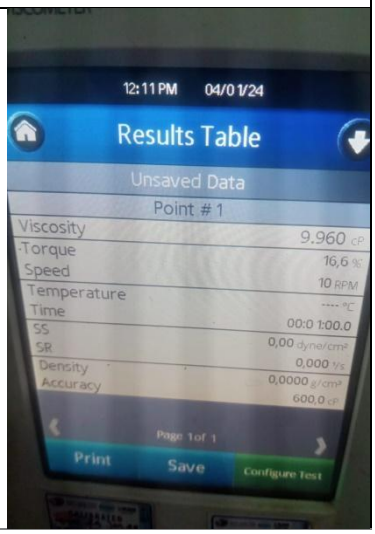
Data Uji Homogenitas

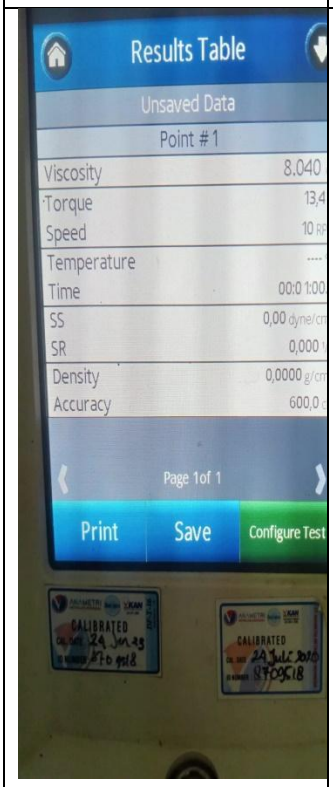
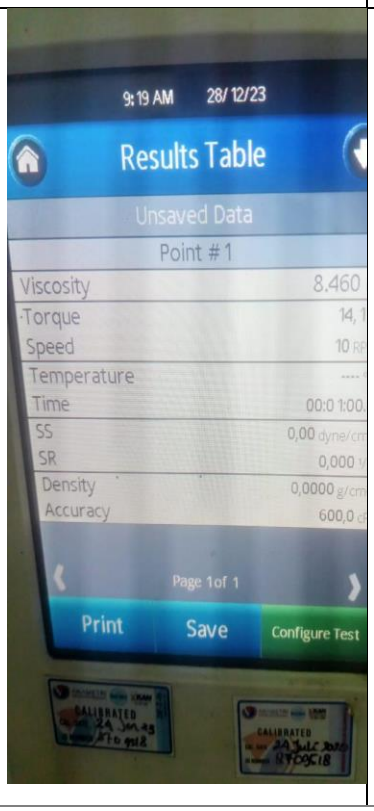
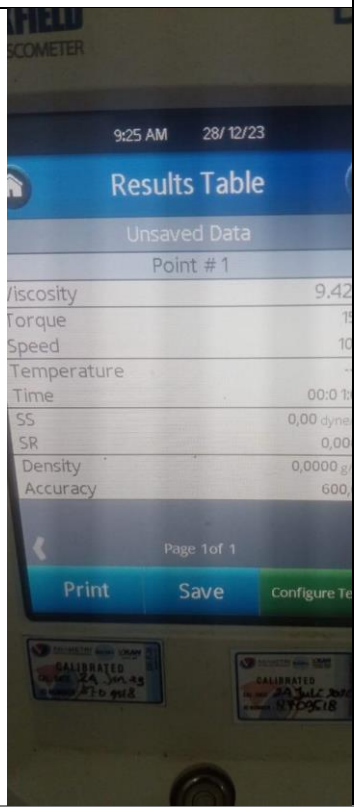
Sampel	Hasil Uji Homogenitas
Formula 1 replikasi 1	Homogen
Formula 1 replikasi 2	Homogen
Formula 1 replikasi 3	Homogen
Formula 2 replikasi 1	Homogen
Formula 2 replikasi 2	Homogen
Formula 2 replikasi 3	Homogen

2. Tipe Emulsi

Tipe Emulsi	
Formula 1	**Formula 2**
	

3. Viskositas

Viskositas		
F1R1	**F1R2**	**F1R3**
		

Viskositas		
F2R1	**F2R2**	**F2R3**
		

Sampel	Hasil Uji Homogenitas
Formula 1 replikasi 1	9.24
Formula 1 replikasi 2	9.54
Formula 1 replikasi 3	9.96
Formula 2 replikasi 1	8.04
Formula 2 replikasi 2	8.46
Formula 2 replikasi 3	9.42

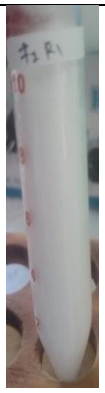
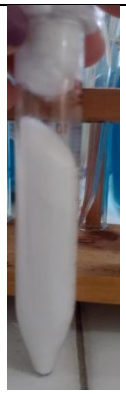
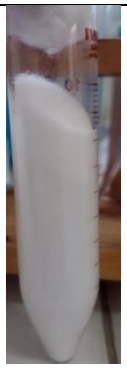
4. pH

pH					
F1R1	**F1R2**	**F1R3**	**F2R1**	**F2R2**	**F2R3**
					

Data hasil pH

Sampel	Hasil Pengujian pH
Formula 1 replikasi 1	4
Formula 1 replikasi 2	5
Formula 1 replikasi 3	4
Formula 2 replikasi 1	5
Formula 2 replikasi 2	4
Formula 2 replikasi 3	5

5. Sentrifugasi

Sentrifugasi					
F1R1	**F1R2**	**F1R3**	**F2R1**	**F2R2**	**F2R3**
					

Data hasil Sentrifugasi

Sampel	Hasil Uji Sentrifugasi
Formula 1 replikasi 1	Tidak terjadi pemisahan fase
Formula 1 replikasi 2	Tidak terjadi pemisahan fase
Formula 1 replikasi 3	Tidak terjadi pemisahan fase
Formula 2 replikasi 1	Tidak terjadi pemisahan fase
Formula 2 replikasi 2	Tidak terjadi pemisahan fase
Formula 2 replikasi 3	Tidak terjadi pemisahan fase

6. Daya Sebar

Daya Sebar Formula 1 dan 2 dengan ke 3 replikasinya						
Hanya kaca	**50 gram**	**100 gram**	**150 gram**	**200 gram**	**250 gram**	**300 gram**
						

Data hasil daya sebar

Beban	Formula 1 replikasi 1	Formula 1 replikasi 2	Formula 1 replikasi 3
Hanya kaca	2.95	2.78	2.7
50 gram	3.19	3.46	2.74
100 gram	3.33	3.7	3.08
150 gram	3.43	3.9	3.24
200 gram	3.75	4.14	3.38
250 gram	4.11	4.46	3.55
300 gram	4.66	4.6	3.61
Nilai rata-rata	3,63	3,86	3,18

Beban	Formula 2 replikasi 1	Formula 2 replikasi 2	Formula 2 replikasi 3
Hanya kaca	3.95	3.92	3.95
50 gram	4.15	4.57	4.34
100 gram	4.3	4.94	4.55
150 gram	4.48	5.18	4.72
200 gram	4.53	5.62	5.36
250 gram	4.58	5.59	5.16
300 gram	5.06	5.79	5.34
Nilai rata-rata	4,43	5,08	5,08

7. Daya Lekat

Sampel		
Formula 1 Replikasi 1	Formula 1 Replikasi 2	Formula 1 Replikasi 3
		

Sampel		
Formula 2 Replikasi 1	Formula 2 Replikasi 2	Formula 2 Replikasi 3
		

Data daya lekat

Sampel	Waktu (detik)
Formula 1 replikasi 1	1.3
Formula 1 replikasi 2	1.5
Formula 1 replikasi 3	1.5
Formula 2 replikasi 1	1.3
Formula 2 replikasi 2	1.4
Formula 2 replikasi 3	1.5

Lampiran 9 Perhitungan Pembuatan Larutan Uji SPF

a. Minyak Biji Labu Kuning Replikasi 1, 2 dan 3
   V1. N1 =V1.N2

   V1. 4 ml = 1000. 40 mg

   V1.4 ml = $\frac{40.000}{4}$

   = 10.000

b. Nanoemulsi Minyak Biji labu kuning Replikasi 1, 2 dan 3
   V1. N1 =V1.N2

   V1. 4 ml = 1000. 40 mg

   V1.4 ml = $\frac{40.000}{4}$

   = 10.000

c. Krim Formula 1 Replikasi 1
   V1. N1 =V1.N2

   V1. 4 ml = 1000. 40 mg

   V1.4 ml = $\frac{40.000}{4}$

   = 10.000

d. Krim Formula 2 Replikasi 1, 2 dan 3
   V1. N1 =V1.N2

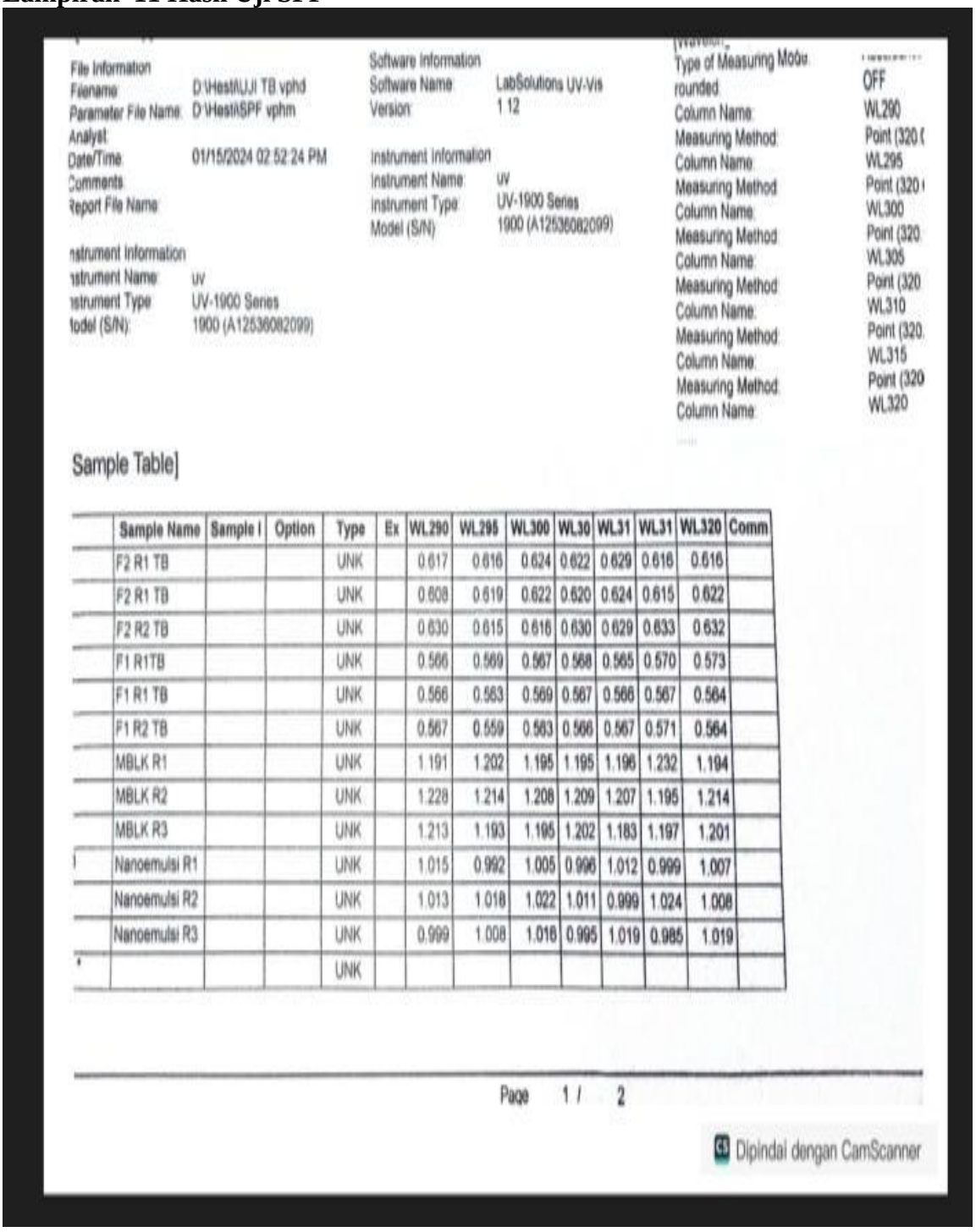
   V1. 4 ml = 1000. 40 mg

   V1.4 ml = $\frac{40.000}{4}$

   = 10.000

Lampiran 10 Preparasi Sampel

Lampiran 11 Hasil Uji SPF



File Information
Filename D:\Hesti\UJI TB.vphd
Parameter File Name D:\Hesti\SPF.vphm
Analyst
Date/Time 01/15/2024 02:52:24 PM
Comments
Report File Name

Instrument Information
Instrument Name uv
Instrument Type UV-1900 Series
Model (S/N) 1900 (A12536082099)

Software Information
Software Name LabSolutions UV-Vis
Version 1.12

Instrument Information
Instrument Name uv
Instrument Type UV-1900 Series
Model (S/N) 1900 (A12536082099)

Type of Measuring Mode OFF
rounded
Column Name WL290
Measuring Method Point (320.0
Column Name WL295
Measuring Method Point (320.0
Column Name WL300
Measuring Method Point (320.
Column Name WL305
Measuring Method Point (320.
Column Name WL310
Measuring Method Point (320.
Column Name WL315
Measuring Method Point (320.
Column Name WL320

Sample Table]

	Sample Name	Sample I	Option	Type	Ex	WL290	WL295	WL300	WL30	WL31	WL31	WL320	Comm
	F2 R1 TB			UNK		0.617	0.616	0.624	0.622	0.629	0.616	0.616	
	F2 R1 TB			UNK		0.608	0.619	0.622	0.620	0.624	0.615	0.622	
	F2 R2 TB			UNK		0.630	0.615	0.616	0.630	0.629	0.633	0.632	
	F1 R1TB			UNK		0.566	0.569	0.567	0.568	0.565	0.570	0.573	
	F1 R1 TB			UNK		0.566	0.563	0.569	0.567	0.566	0.567	0.564	
	F1 R2 TB			UNK		0.567	0.559	0.563	0.566	0.567	0.571	0.564	
	MBLK R1			UNK		1.191	1.202	1.195	1.195	1.196	1.232	1.194	
	MBLK R2			UNK		1.228	1.214	1.208	1.209	1.207	1.195	1.214	
	MBLK R3			UNK		1.213	1.193	1.195	1.202	1.183	1.197	1.201	
	Nanoemulsi R1			UNK		1.015	0.992	1.005	0.996	1.012	0.999	1.007	
	Nanoemulsi R2			UNK		1.013	1.018	1.022	1.011	0.999	1.024	1.008	
	Nanoemulsi R3			UNK		0.999	1.008	1.016	0.995	1.019	0.985	1.019	
*				UNK									

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Dipindai dengan CamScanner

Lampiran 12 Perhitungan Nilai SPF

1. **Perhitungan nilai SPF**

Formulasi 1 Replikasi 1					
Panjang gelombang	**absorbansi**	**EE X I**	**abs x (EEX I)**	**CF**	**HASIL**
290	0.566	0.015	0.00849	10	0.0849
295	0.569	0.0817	0.0464873	10	0.464873
300	0.567	0.2874	0.1629558	10	1.629558
305	0.568	0.3278	0.1861904	10	1.861904
310	0.565	0.1864	0.105316	10	1.05316
315	0.57	0.0839	0.047823	10	0.47823
320	0.573	0.018	0.010314	10	0.10314
Total					5.675765

a. Panjang gelombang 290 nm

   Abs x (EEX I)

   = 0.566 X 0.015

   = 0.00849

   CF X (Abs x EEx I)

   = 10 X 0.00849

   = 0.0849

b. Panjang gelombang 295 nm

   Abs x (EEX I)

   = 0.569 X 0.0817

   = 0.0464873

   CF X (Abs x EEx I)

   = 10 X 0.0464873

   = 0.464873

c. Panjang gelombang 300 nm

   Abs x (EEX I)

= 0.567 X 0.2874

= 0.1629558

CF X (Abs x EEx I)

= 10 X.0.1629558

= 1.629558

d. Panjang gelombang 305 nm

Abs X (EEX I)

= 0.568 X 0.3278

= 0.1861904

CF X (Abs x EEx I)

= 10 X 0.1861904

= 1.861904

e. Panjang gelombang 310 nm

Abs X (EEX I)

= 0.565 X 0.1864

= 0.105316

CF X (Abs x EEx I)

= 10 X 0.105316

= 1.05316

f. Panjang gelombang 315 nm

Abs X (EEX I)

= 0.57 X 0.0839

= 0.047823

CF X (Abs x EEx I)

= 10 X 0.047823

= 0.47823

g. Panjang gelombang 320 nm

Abs X (EEX I)

= 0.573X 0.018

= 0.010314

CF X (Abs x EEx I)

= 10 X 0.010314

= 0.10314

Formulasi 1 Replikasi 2					
Panjang gelombang	**absorbansi**	**EE X I**	**abs x (EEX I)**	**CF**	**HASIL**
290	0.566	0.015	0.00849	10	0.0849
295	0.563	0.0817	0.045997 1	10	0.459971
300	0.569	0.2874	0.163530 6	10	1.635306
305	0.567	0.3278	0.185862 6	10	1.858626
310	0.566	0.1864	0.105502 4	10	1.055024
315	0.567	0.0839	0.047571 3	10	0.475713
320	0.564	0.018	0.010152	10	0.10152
Total					5.67106

a. Panjang gelombang 290 nm

Abs x (EEX I)

= 0.566 X 0.015

= 0.00849

CF X (Abs x EEx I)

= 10 X 0.00849

= 0.0849

b. Panjang gelombang 295 nm

Abs x (EEX I)

= 0.563 X 0.0817

= 0.0459971

CF X (Abs x EEx I)

= 10 X 0.0459971

= 0.459971

c. Panjang gelombang 300 nm

Abs x (EEX I)

= 0.569X 0.2874

= 0.1635306

CF X (Abs x EEx I)

= 10 X 0.1635306

= 1.635306

d. Panjang gelombang 305 nm

Abs x (EEX I)

= 0.567 X 0.3278

= 0.1858626

CF X (Abs x EEx I)

= 10 X 0.1858626

= 1.858626

e. Panjang gelombang 310 nm

Abs x (EEX I)

= 0.566 X 0.1864

= 0.1055024

CF X (Abs x EEx I)

= 10 X 0.1055024

= 1.055024

f. Panjang gelombang 315 nm

Abs x (EEX I)

= 0.567 X 0.0839

= 0.0475713

CF X (Abs x EEx I)

= 10 X 0.0475713

= 0.475713

g. Panjang gelombang 320 nm

Abs x (EEX I)

= 0.564X 0.018

= 0.010152

CF X (Abs x EEx I)

= 10 X 0.010152

= 0.10152

Formulasi 1 Replikasi 3					
Panjang gelombang	**absorbansi**	**EE X I**	**abs x (EEX I)**	**CF**	**HASIL**
290	0.567	0.015	0.008505	10	0.08505
295	0.559	0.0817	0.0456703	10	0.456703
300	0.563	0.2874	0.1618062	10	1.618062
305	0.566	0.3278	0.1855348	10	1.855348
310	0.567	0.1864	0.1056888	10	1.056888
315	0.571	0.0839	0.0479069	10	0.479069
320	0.564	0.018	0.010152	10	0.10152
Total					5.65264

a. Panjang gelombang 290 nm

   Abs x (EEX I)

   = 0.567 X 0.015

   = 0.08505

   CF X (Abs x EEx I)

   = 10 X 0.08505

   = 0.08505

b. Panjang gelombang 295 nm

   Abs x (EEX I)

   = 0.559X 0.0817

   = 0.0456703

   CF X (Abs x EEx I)

   = 10 X 0.0456703

   = 0.456703

c. Panjang gelombang 300 nm

Abs x (EEX I)

= 0.563 X 0.2874

= 0.1618062

CF X (Abs x EEx I)

= 10 X 0.1618062

= 1.618062

d. Panjang gelombang 305 nm

Abs x (EEX I)

= 0.566 X 0.3278

= 0.1855348

CF X (Abs x EEx I)

= 10 X 0.1855348

= 1.855348

e. Panjang gelombang 310 nm

Abs x (EEX I)

= 0.567 X 0.1864

= 0.1056888

CF X (Abs x EEx I)

= 10 X 0.1056888

= 1.056888

f. Panjang gelombang 315 nm

Abs x (EEX I)

= 0.571X 0.0839

= 0.0479069

CF X (Abs x EEx I)

= 10 X 0.0479069

= 0..479069

g. Panjang gelombang 320 nm

Abs x (EEX I)

= 0.564 X 0.018

= 0.010152

CF X (Abs x EEx I)

= 10 X 0.010152

= 0.10152

Formulasi 2 Replikasi 1					
Panjang gelombang	**absorbansi**	**EE X I**	**abs x (EEX I)**	**CF**	**HASIL**
290	0.617	0.015	0.009255	10	0.09255
295	0.616	0.0817	0.0503272	10	0.503272
300	0.624	0.2874	0.1793376	10	1.793376
305	0.622	0.3278	0.2038916	10	2.038916
310	0.629	0.1864	0.1172456	10	1.172456
315	0.616	0.0839	0.0516824	10	0.516824
320	0.616	0.018	0.011088	10	0.11088
Total					6.228274

a. Panjang gelombang 290 nm

Abs x (EEX I)

= 0.617X 0.015

= 0.009255

CF X (Abs x EEx I)

= 10 X 0.0092559

= 0.09255

b. Panjang gelombang 295 nm

Abs x (EEX I)

= 0.617 X 0.0817

= 0.0503272

CF X (Abs x EEx I)

= 10 X 0.0503272

= 0.503272

c. Panjang gelombang 300 nm

Abs x (EEX I)

= 0.624 X 0.2874

= 0.1793376

CF X (Abs x EEx I)

= 10 X 0.1793376

= 1.793376

d. Panjang gelombang 305 nm

Abs x (EEX I)

= 0.622 X 0.3278

= 0.2038916

CF X (Abs x EEx I)

= 10 X 0.2038916

= 2.038916

e. Panjang gelombang 310 nm

Abs x (EEX I)

= 0.629 X 0.1864

= 0.1172456

CF X (Abs x EEx I)

= 10 X 0.1172456

= 1.172456

f. Panjang gelombang 315 nm

Abs x (EEX I)

= 0.616 X 0.0839

= 0.0516824

CF X (Abs x EEx I)

= 10 X 0.0516824

= 0.516824

g. Panjang gelombang 320 nm

Abs x (EEX I)

= 0.616 X 0.018

= 0.011088

CF X (Abs x EEx I)

= 10 X 0.011088

= 0.11088

Formulasi 2 Replikasi 2					
Panjang gelombang	**absorbansi**	**EE X I**	**abs x (EEX I)**	**CF**	**HASIL**
290	0.608	0.015	0.00912	10	0.0912
295	0.619	0.0817	0.0505723	10	0.505723
300	0.622	0.2874	0.1787628	10	1.787628
305	0.62	0.3278	0.203236	10	2.03236
310	0.624	0.1864	0.1163136	10	1.163136
315	0.615	0.0839	0.0515985	10	0.515985
320	0.622	0.018	0.011196	10	0.11196
Total					6.207992

a. Panjang gelombang 290 nm

   Abs x (EEX I)

   = 0.608 X 0.015

   = 0.00912

   CF X (Abs x EEx I)

   = 10 X 0.00912

   = 0.0912

b. Panjang gelombang 295 nm

   Abs x (EEX I)

   = 0.619 X 0.0817

   = 0.0505723

   CF X (Abs x EEx I)

= 10 X 0.0505723

= 0.505723

c. Panjang gelombang 300 nm

Abs x (EEX I)

= 0.622 X 0.2874

= 0.1787628

CF X (Abs x EEx I)

= 10 X 0.1787628

= 1.787628

d. Panjang gelombang 305 nm

Abs x (EEX I)

= 0.62 X 0.3278

= 0.203236

CF X (Abs x EEx I)

= 10 X 0.203236

= 2.03236

e. Panjang gelombang 310 nm

Abs x (EEX I)

= 0.624 X 0.1864

= 0.1163136

CF X (Abs x EEx I)

= 10 X 0.1163136

= 1.163136

f. Panjang gelombang 315 nm

Abs x (EEX I)

= 0.615 X 0.0839

= 0.0515985

CF X (Abs x EEx I)

= 10 X 0.0515985

= 0.515985

g. Panjang gelombang 320 nm

Abs x (EEX I)

= 0.622 X 0.018

= 0.011196

CF X (Abs x EEx I)

= 10 X 0.011196

= 0.11196

Formulasi 2 Replikasi 3					
Panjang gelombang	**absorbansi**	**EE X I**	**abs x (EEX I)**	**CF**	**HASIL**
290	0.63	0.015	0.00945	10	0.0945
295	0.615	0.0817	0.0502455	10	0.502455
300	0.616	0.2874	0.1770384	10	1.770384
305	0.63	0.3278	0.206514	10	2.06514
310	0.629	0.1864	0.1172456	10	1.172456
315	0.633	0.0839	0.0531087	10	0.531087
320	0.632	0.018	0.011376	10	0.11376
Total					6.249782

a. Panjang gelombang 290 nm

Abs x (EEX I)

= 0.63 X 0.015

= 0.0945

CF X (Abs x EEx I)

= 10 X 0.00945

= 0.11196

b. Panjang gelombang 295 nm

Abs x (EEX I)

= 0.615 X 0.0817

= 0.0502455

CF X (Abs x EEx I)

= 10 X 0.0502455

= 0.502455

c. Panjang gelombang 300 nm

Abs x (EEX I)

= 0.616 X 0.2874

= 0.1770384

CF X (Abs x EEx I)

= 10 X 0.1770384

= 1.770384

d. Panjang gelombang 305 nm

Abs x (EEX I)

= 0.63 X 0.3278

= 0.206514

CF X (Abs x EEx I)

= 10 X 0.206514

= 2.06514

e. Panjang gelombang 310 nm

Abs x (EEX I)

= 0.629 X 0.1864

= 0.1172456

CF X (Abs x EEx I)

= 10 X 0.1172456

= 1.172456

f. Panjang gelombang 315 nm

Abs x (EEX I)

= 0.633 X 0.0839

= 0.0531087

CF X (Abs x EEx I)

= 10 X 0.0531087

= 0.531087

g. Panjang gelombang 320 nm

Abs x (EEX I)

= 0.632 X 0.018

= 0.011376

CF X (Abs x EEx I)

= 10 X 0.011376

= 0.11376

Nanoemulsi Replikasi 1					
Panjang gelombang	**absorbansi**	**EE X I**	**abs x (EEX I)**	**CF**	**HASIL**
290	1.015	0.015	0.015225	10	0.15225
295	0.992	0.0817	0.081046	10	0.810464
300	1.005	0.2874	0.288837	10	2.88837
305	0.996	0.3278	0.326489	10	3.264888
310	1.012	0.1864	0.188637	10	1.886368
315	0.999	0.0839	0.083816	10	0.838161
320	1.007	0.018	0.018126	10	0.18126
Total					10.02176

a. Panjang gelombang 290 nm

   Abs x (EEX I)

   = 1.015 X 0.015

   = 0.015225

   CF X (Abs x EEx I)

   = 10 X 0.015225

   = 0.15225

b. Panjang gelombang 295 nm

   Abs x (EEX I)

   = 0.992 X 0.0817

   = 0.081046

CF X (Abs x EEx I)

= 10 X 0.081046

= 0.810464

c. Panjang gelombang 300 nm

Abs x (EEX I)

= 1.005 X 0.2874

= 0.288837

CF X (Abs x EEx I)

= 10 X 0.288837

= 2.88837

d. Panjang gelombang 305 nm

Abs x (EEX I)

= 0.996 X 0.3278

= 0.326489

CF X (Abs x EEx I)

= 10 X 0.326489

= 3.264888

e. Panjang gelombang 310 nm

Abs x (EEX I)

= 1.012 X 0.1864

= 0.188637

CF X (Abs x EEx I)

= 10 X 0.188637

= 1.886368

f. Panjang gelombang 315 nm

Abs x (EEX I)

= 0.999 X 0.0839

= 0.083816

CF X (Abs x EEx I)

= 10 X 0.083816

= 0.838161

g. Panjang gelombang 320 nm

Abs x (EEX I)

= 1.007 X 0.018

= 0.018126

CF X (Abs x EEx I)

= 10 X 0.018126

= 0.18126

Nanoemulsi Replikasi 2					
Panjang gelombang	**absorbansi**	**EE X I**	**abs x (EEX I)**	**CF**	**HASIL**
290	1.013	0.015	0.015195	10	0.15195
295	1.018	0.0817	0.083171	10	0.831706
300	1.022	0.2874	0.293723	10	2.937228
305	1.011	0.3278	0.331406	10	3.314058
310	0.999	0.1864	0.186214	10	1.862136
315	1.024	0.0839	0.085914	10	0.859136
320	1.008	0.018	0.018144	10	0.18144
Total					10.13765

a. Panjang gelombang 290 nm

Abs x (EEX I)

= 1.013 X 0.015

= 0.015195

CF X (Abs x EEx I)

= 10 X 0.015195

= 0.15195

b. Panjang gelombang 295 nm

Abs x (EEX I)

= 1.018 X 0.0817

= 0.083171

CF X (Abs x EEx I)

= 10 X 0.083171

= 0.831706

c. Panjang gelombang 300 nm

Abs x (EEX I)

= 1.022 X 0.2874

= 0.293723

CF X (Abs x EEx I)

= 10 X 0.293723

= 2.937228

d. Panjang gelombang 305 nm

Abs x (EEX I)

= 1.011 X 0.3278

= 0.331406

CF X (Abs x EEx I)

= 10 X 0.331406

= 3.314058

e. Panjang gelombang 310 nm

Abs x (EEX I)

= 0.999 X 0.1864

= 0.186214

CF X (Abs x EEx I)

= 10 X 0.186214

= 1.862136

f. Panjang gelombang 315 nm

Abs x (EEX I)

= 1.024 X 0.0839

= 0.085914

CF X (Abs x EEx I)

= 10 X 0.085914

= 0.859136

g. Panjang gelombang 320 nm

Abs x (EEX I)

= 1.008 X 0.018

= 0.018144

CF X (Abs x EEx I)

= 10 X 0.018144

= 0.18144

Nanoemulsi Replikasi 3					
Panjang gelombang	**absorbansi**	**EE X I**	**abs x (EEX I)**	**CF**	**HASIL**

290	0.999	0.015	0.014985	10	0.14985
295	1.008	0.0817	0.082354	10	0.823536
300	1.016	0.2874	0.291998	10	2.919984
305	0.995	0.3278	0.326161	10	3.26161
310	1.019	0.1864	0.189942	10	1.899416
315	0.985	0.0839	0.082642	10	0.826415
320	1.019	0.018	0.018342	10	0.18342
Total					10.06423

a. Panjang gelombang 290 nm

   Abs x (EEX I)

   = 0.999 X 0.015

   = 0.014985

   CF X (Abs x EEx I)

   = 10 X 0.014985

   = 0.14985

b. Panjang gelombang 295 nm

   Abs x (EEX I)

   = 1.008 X 0.0817

   = 0.082354

   CF X (Abs x EEx I)

   = 10 X 0.082354

   = 0.823536

c. Panjang gelombang 300 nm

   Abs x (EEX I)

   = 1.016 X 0.2874

   = 0.291998

CF X (Abs x EEx I)

= 10 X 0.291998

= 2.919984

d. Panjang gelombang 305 nm

Abs x (EEX I)

= 0.995 X 0.3278

= 3.26161

CF X (Abs x EEx I)

= 10 X 3.26161

= 3.26161

e. Panjang gelombang 310 nm

Abs x (EEX I)

= 1.019 X 0.1864

= 0.189942

CF X (Abs x EEx I)

= 10 X 0.189942

= 1.899416

f. Panjang gelombang 315 nm

Abs x (EEX I)

= 0.985 X 0.0839

= 0.082642

CF X (Abs x EEx I)

= 10 X 0.082642

= 0.826415

g. Panjang gelombang 320 nm

Abs x (EEX I)

= 1.019 X 0.018

= 0.018342

CF X (Abs x EEx I)

= 10 X 0.018342

= 0.18342

Minyak Biji Labu Kuning Replikasi 1					
Panjang gelombang	**absorbansi**	**EE X I**	**abs x (EEX I)**	**CF**	**HASIL**
290	1.191	0.015	0.017865	10	0.17865
295	1.202	0.0817	0.098203	10	0.982034
300	1.195	0.2874	0.343443	10	3.43443
305	1.195	0.3278	0.391721	10	3.91721
310	1.196	0.1864	0.222934	10	2.229344
315	1.232	0.0839	0.103365	10	1.033648
320	1.194	0.018	0.021492	10	0.21492
Total					11.99024

a. Panjang gelombang 290 nm

Abs x (EEX I)

= 1.191 X 0.015

= 0.017865

CF X (Abs x EEx I)

= 10 X 0.017865

= 0.17865

b. Panjang gelombang 295 nm

Abs x (EEX I)

= 1.202 X 0.0817

= 0.098203

CF X (Abs x EEx I)

= 10 X 0.098203

= 0.982034

c. Panjang gelombang 300 nm

Abs x (EEX I)

= 1.195 X 0.2874

= 0.343443

CF X (Abs x EEx I)

= 10 X 0.343443

= 3.43443

d. Panjang gelombang 305 nm

Abs x (EEX I)

= 1.195 X 0.3278

= 0.391721

CF X (Abs x EEx I)

= 10 X 0.391721

= 3.91721

e. Panjang gelombang 310 nm

Abs x (EEX I)

= 1.196 X 0.1864

= 0.222934

CF X (Abs x EEx I)

= 10 X 0.222934

= 2.229344

f. Panjang gelombang 315 nm

Abs x (EEX I)

= 1.232 X 0.0839

= 0.103365

CF X (Abs x EEx I)

= 10 X 0.103365

= 1.033648

g. Panjang gelombang 320 nm

Abs x (EEX I)

= 1.194 X 0.018

= 0.021492

CF X (Abs x EEx I)

= 10 X 0.021492

= 0.21492

Minyak Biji Labu Kuning Replikasi 2					
Panjang gelombang	**absorbansi**	**EE X I**	**abs x (EEX I)**	**CF**	**HASIL**
290	1.228	0.015	0.01842	10	0.1842
295	1.214	0.0817	0.099184	10	0.991838
300	1.208	0.2874	0.347179	10	3.471792
305	1.209	0.3278	0.39631	10	3.963102

310	1.207	0.1864	0.224985	10	2.249848
315	1.195	0.0839	0.100261	10	1.002605
320	1.214	0.018	0.021852	10	0.21852
Total					12.08191

a. Panjang gelombang 290 nm

Abs x (EEX I)

= 1.228 X 0.015

= 0.01842

CF X (Abs x EEx I)

= 10 X 0.01842

= 0.1842

b. Panjang gelombang 295 nm

Abs x (EEX I)

= 1.214 X 0.0817

= 0.099184

CF X (Abs x EEx I)

= 10 X 0.099184

= 0.991838

c. Panjang gelombang 300 nm

Abs x (EEX I)

= 1.208 X 0.2874

= 0.347179

CF X (Abs x EEx I)

= 10 X 0.347179

= 3.471792

d. Panjang gelombang 305 nm

   Abs x (EEX I)

   = 1.209 X 0.3278

   = 0.39631

   CF X (Abs x EEx I)

   = 10 X 0.39631

   = 3.963102

e. Panjang gelombang 310 nm

   Abs x (EEX I)

   = 1.207 X 0.1864

   = 0.224985

   CF X (Abs x EEx I)

   = 10 X 0.224985

   = 2.249848

f. Panjang gelombang 315 nm

   Abs x (EEX I)

   = 1.195X 0.0839

   = 0.100261

   CF X (Abs x EEx I)

   = 10 X 0.100261

   = 1.002605

g. Panjang gelombang 320 nm

   Abs x (EEX I)

= 1.214 X 0.018

= 0.021852

CF X (Abs x EEx I)

= 10 X 0.021852

= 0.21852

Minyak Biji Labu Kuning Replikasi 3					
Panjang gelombang	**absorbansi**	**EE X I**	**abs x (EEX I)**	**CF**	**HASIL**
290	1.213	0.015	0.0182	10	0.18195
295	1.193	0.0817	0.09747	10	0.97468
300	1.195	0.2874	0.34344	10	3.43443
305	1.202	0.3278	0.39402	10	3.94016
310	1.183	0.1864	0.22051	10	2.20511
315	1.197	0.0839	0.10043	10	1.00428
320	1.201	0.018	0.02162	10	0.21618
Total					11.95679

a. Panjang gelombang 290 nm

   Abs x (EEX I)

   = 1.213 X 0.015

   = 0.0182

   CF X (Abs x EEx I)

   = 10 X 0.0182

   = 0.18195

b. Panjang gelombang 295 nm

   Abs x (EEX I)

   = 1.193 X 0.0817

   = 0.09747

CF X (Abs x EEx I)

= 10 X 0.09747

= 0.97468

c. Panjang gelombang 300nm

Abs x (EEX I)

= 1.195 X 0.2874

= 0.34344

CF X (Abs x EEx I)

= 10 X 0.34344

= 3.43443

d. Panjang gelombang 305 nm

Abs x (EEX I)

= 1.202 X 0.3278

= 0.39402

CF X (Abs x EEx I)

= 10 X 0.39402

= 3.94016

e. Panjang gelombang 310 nm

Abs x (EEX I)

= 1.183 X 0.1864

= 0.22051

CF X (Abs x EEx I)

= 10 X 0.22051

= 2.20511

f. Panjang gelombang 315 nm

Abs x (EEX I)

= 1.197 X 0.0839

= 0.10043

CF X (Abs x EEx I)

= 10 X 0.10043

= 1.00428

g. Panjang gelombang 320 nm

Abs x (EEX I)

= 1.201 X 0.018

= 0.02162

CF X (Abs x EEx I)

= 10 X 0.02162

= 0.2161

Lampiran 13 SPSS

1. Karakteristik Fisik Sediaan

a. Daya lekat

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Kelompok daya lekat	Statistic	df	Sig.	Statistic	Df	Sig.
Daya lekat	Formula 1	.385	3	.	.750	3	.000
	formula 2	.175	3	.	1.000	3	1.000

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
Daya lekat	Based on Mean	.308	1	4	.609
	Based on Median	.000	1	4	1.000
	Based on Median and with adjusted df	.000	1	2.941	1.000
	Based on trimmed mean	.256	1	4	.640

Test Statistics[a]

	Daya lekat
Mann-Whitney U	3.500
Wilcoxon W	9.500
Z	-.471
Asymp. Sig. (2-tailed)	.637
Exact Sig. [2*(1-tailed Sig.)]	.700[b]

a. Grouping Variable: Kelompok_daya lekat
b. Not corrected for ties.

b. Viskositas

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Kelompok	Statistic	df	Sig.	Statistic	Df	Sig.
Hasil Viskositas	Formula 1	.211	3	.	.991	3	.817
	formula 2	.267	3	.	.951	3	.576

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
Hasil Viskositas	Based on Mean	1.649	1	4	.268
	Based on Median	.522	1	4	.510
	Based on Median and with adjusted df	.522	1	2.777	.526
	Based on trimmed mean	1.547	1	4	.281

ANOVA

Hasil Viskositas

	Sum of Squares	Df	Mean Square	F	Sig.
Between Groups	1325400.000	1	1325400.000	4.200	.110
Within Groups	1262400.000	4	315600.000		
Total	2587800.000	5			

c. pH

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Kelompok	Statistic	df	Sig.	Statistic	df	Sig.
Hasil pH	Formula 1	.385	3	.	.750	3	.000
	formula 2	.385	3	.	.750	3	.000

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
Hasil pH	Based on Mean	.000	1	4	1.000
	Based on Median	.000	1	4	1.000
	Based on Median and with adjusted df	.000	1	4.000	1.000
	Based on trimmed mean	.000	1	4	1.000

Test Statistics[a]

	Hasil pH
Mann-Whitney U	3.000
Wilcoxon W	9.000
Z	-.745
Asymp. Sig. (2-tailed)	.456
Exact Sig. [2*(1-tailed Sig.)]	.700[b]

a. Grouping Variable: Kelompok
b. Not corrected for ties.

d. Daya sebar

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Kelompok	Statistic	df	Sig.	Statistic	df	Sig.
hasil daya sebar	Formula 1	.248	3	.	.968	3	.658
	formula 2	.176	3	.	1.000	3	.983

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
hasil daya sebar	Based on Mean	.042	1	4	.847
	Based on Median	.002	1	4	.970
	Based on Median and with adjusted df	.002	1	3.903	.970
	Based on trimmed mean	.038	1	4	.855

ANOVA

hasil daya sebar

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	2.184	1	2.184	19.718	.011
Within Groups	.443	4	.111		
Total	2.627	5			

e. SPF

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Kelompok TABIR SURYA	Statistic	Df	Sig.	Statistic	df	Sig.
hasil SPF	minyak biji labu kuning	.284	3	.	.933	3	.499
	nanoemulsi minyak biji labu kuning	.237	3	.	.977	3	.708
	formula 1	.385	3	.	.750	3	.000
	formula 2	.177	3	.	1.000	3	.968

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
hasil SPF	Based on Mean	2.889	3	8	.102
	Based on Median	1.001	3	8	.441
	Based on Median and with adjusted df	1.001	3	4.365	.473
	Based on trimmed mean	2.718	3	8	.115

Post Hoc Tests

Multiple Comparisons

Dependent Variable: hasil SPF

LSD

(I) Kelompok TABIR SURYA	(J) Kelompok TABIR SURYA	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Lower Bound	Up
minyak biji labu kuning	nanoemulsi minyak biji labu kuning	1.93510*	.03693	.000	1.8499	
	formula 1	6.34473*	.03693	.000	6.2596	
	formula 2	5.78096*	.03693	.000	5.6958	
nanoemulsi minyak biji labu kuning	minyak biji labu kuning	-1.93510*	.03693	.000	-2.0203	
	formula 1	4.40963*	.03693	.000	4.3245	
	formula 2	3.84586*	.03693	.000	3.7607	
formula 1	minyak biji labu kuning	-6.34473*	.03693	.000	-6.4299	
	nanoemulsi minyak biji labu kuning	-4.40963*	.03693	.000	-4.4948	
	formula 2	-.56376*	.03693	.000	-.6489	
formula 2	minyak biji labu kuning	-5.78096*	.03693	.000	-5.8661	
	nanoemulsi minyak biji labu kuning	-3.84586*	.03693	.000	-3.9310	
	formula 1	.56376*	.03693	.000	.4786	

*. The mean difference is significant at the 0.05 level.

Kruskal-Wallis Test

Test Statistics[a,b]

	hasil SPF
Kruskal-Wallis H	10.421
df	3
Asymp. Sig.	.015

a. Kruskal Wallis Test

b. Grouping Variable: Kelompok TABIR SURYA

f. SPF krim Formula 1 dan 2

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	kelompok_spf	Statistic	df	Sig.	Statistic	df	Sig.
hasil _spf	formula 1	.312	3	.	.895	3	.370
	formula 2	.177	3	.	1.000	3	.968

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
hasil _spf	Based on Mean	.434	1	4	.546
	Based on Median	.489	1	4	.523
	Based on Median and with adjusted df	.489	1	3.801	.525
	Based on trimmed mean	.441	1	4	.543

ANOVA

hasil _spf

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.474	1	.474	1617.811	.000
Within Groups	.001	4	.000		
Total	.475	5			

Lampiran 14 Logbook penelitian

Tanggal Pengajuan : 05/10/2023
Tanggal Acc judul : 09/10/2023
Tanggal Selesai Proposal : 08/12/2023
Tanggal Selesai Skripsi :

No	Hari/Tgl	Keterangan	Dosen/MhS
1	Sabtu,14/10/2023 04:14:5	Bimbingan awal pra skripsi 17 September 2023 prosedur penyusunan proposal persyaratan proposal pencarian tema dan pustaka	Istianatus Sunnah, S.Farm., Apt., M.Sc
2	Sabtu,14/10/2023 04:16:18	Bimbingan judul dan tema penentuan tema penentuan pustka metode yang digunakan 24 September 2023	Istianatus Sunnah, S.Farm., Apt., M.Sc
3	Sabtu,14/10/2023 04:17:39	Bimbingan proposal 1 menyusun latar belakang penentuan rumusan msalah	Istianatus Sunnah, S.Farm., Apt., M.Sc

		penentuan metode silakan revisi sesuai koreksi yang diberikan 14 Oktober 2023	
4	Jumat,08/12/2023 08:16:27	29 Oktober 2023 Bimbingan Revisi proposal Bab 1-3	Istianatus Sunnah, S.Farm., Apt., M.Sc
5	Jumat,08/12/2023 08:17:44	7 November 2023 Revisi Bab 1-3 Perbaiki naskah banyak yang typo narasi perbaiki bab 3 silakan perbaiki prosedur pengujian antioksidan DPPH	Istianatus Sunnah, S.Farm., Apt., M.Sc
6	Jumat,08/12/2023 08:18:47	18 November 2023 Bimbingan revisi bab 1-3 acc masuk lab perbaiki narasi dan pengujian yang saya catatkan	Istianatus Sunnah, S.Farm., Apt., M.Sc

BIMBINGAN TA/SKRIPSI

7	Jumat,08/12/2023 09:03:15	Desember 2023 konsul hasil nano emulgel ukuran partikel 1097 nm. catatan merubah formulasi	Istianatus Sunnah, S.Farm., Apt., M.Sc
8	Senin,11/12/2023 03:03:03	10 Desember 2023 Perubahan Formulasi Nano emulsi Buat SMIX (Surfaktan dan Ko surfaktan) Pakai TWeen 80 dan PEG 400 dengan perbandingan 5:1 dan 4:1 sebanyak 30 ml Formula Nano emulsi MBLK 8%, SMIX 34% Air 58% MBLK 16% SMIX 4% air 80% cek ukuran partikel, PDI dan bentuk pH	Istianatus Sunnah, S.Farm., Apt., M.Sc
9	Rabu,20/12/2023 10:23:22	Konsul hasil formulasi daya sebar dengan beban 250 gram dan massa 500 mg lebih dari 7 cm konsistensi agak cair viskositas 5000 (10 rpm, 1 menit) pH --- 6 acc ubah formula asam stearat jadi 18 gram glycerin ubah jadi 12 gram cek sifat fisik	Istianatus Sunnah, S.Farm., Apt., M.Sc
10	Sabtu,06/01/2024 12:51:38	Bimbingan ubah uji hasil antioksdan jelek ubah tabir surya https://drive.google.com/drive/folders/13ydAJeLxDtKmm4me3CXgMbkrY58gtECW?	Istianatus Sunnah, S.Farm., Apt., M.Sc

		usp=drive_link	
11	Selasa,23/ 01/2024 06:18:55	Konsul bab 1-5 abstrak masih belum sesuai pembahasan perbaiki. masih salah menghitung rata2 masih salah menginterpretasi data keterbatasan penelitian belum ada kesimpulan tidak sesuai	Istianatus Sunnah, S.Farm., Apt., M.Sc