

LAMPIRAN

Lampiran 1 : Hasil Cek Turnitin

131. DILA NURFADILAH_191FF03108			
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Lampiran 2 : CoA ekstrak pegagan dan ekstrak kunyit



Jl. Karanglo, Bumen KG 3 No.319 Yogyakarta 55173
Telp. 0851 0666 8808 e-mail: lansida@yahoo.com

SURAT KETERANGAN

No. 2302/LHT/018

Dengan ini menerangkan bahwa,

Nama : Dila Nurfadilah
NIP : 191FF03108
Institusi : Fakultas Farmasi Universitas Bhakti Kencana

telah melakukan pemesanan Ekstrak Herba Pegagan (*Centella asiatica* L.) dan Ekstrak Rimpang Kunyit (*Curcuma domestica* Val.) di Lansida untuk keperluan penelitian dengan judul :

FORMULASI DAN EVALUASI SEDIAAN SABUN MANDI CAIR ANTIJERAWAT
DARI EKSTRAK PEGAGAN (*Centella asiatica* (L.) Urban) DAN EKSTRAK KUNYIT
(*Curcuma domestica* Val.)

Demikian surat keterangan ini dibuat untuk digunakan sebagaimana mestinya.

Yogyakarta, 21 Februari 2023

Divisi Teknik,

Apriyani Susilowati, S.Si.

Lampiran 3 : Sertifikat hasil uji kadar air dan abu total ekstrak pegagan dan kunyit

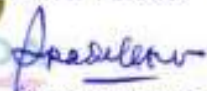


SERTIFIKAT HASIL UJI

Nomor : 230233267b
 Nama Sampel : Ekstrak Pegagan, Kunyit
 Uji : Kadar Air, Kadar Abu Total
 Metode : Gravimetri
 Tanggal : 21 Februari 2023
 Permintaan : Dila Nurfadilah
 NIM : 191FF03108
 Institusi : Fakultas Farmasi Universitas Bhakti Kencana

Hasil Uji

Parameter Uji	Sampel Ekstrak		Satuan	Metode
	Pegagan	Kunyit		
Kadar Air	7,41	8,8	% v/b	Gravimetri
Kadar Abu Total	0,93	1,26	% b/b	Gravimetri

Divisi Teknis

 Pradekatiwi, S.Si.

Lampiran 4 : CoA Cocamide DEA

PT. Kao Indonesia Chemicals Head Office and Factory : Jl. Raya Tambun KM 42 Bekasi, West Java-Indonesia Phone : (62-21) 88326188 ; 88324883 ; 88325225 Fax : (62-21) 88324452 ; 88327732 																		
PRODUCT INFORMATION																		
<u>AMINON C-02 SA</u> (Coconut Fatty Acid Diethanol Amide) Aminon C-02 SA is Coconut Fatty Acid Diethanol Amide and has excellent synergistic effect in foaming, cleansing, thickening, etc. when used together with other surfactants. Aminon C-02 SA is low toxic, the acute oral toxicity of Aminon C-02 SA to rats, for example is more 10,000 mg/Kg for LD₅₀, which is almost the same as toiletry soaps. The biodegradability of Aminon C-02 SA is so great that nearly 100% of the product is biodegraded according to JIS K-3363 method of evaluation. <u>General Properties:</u> <table style="margin-left: auto; margin-right: auto;"> <tr> <td style="padding: 2px 10px;">Chemical description</td> <td style="padding: 2px 10px;">:</td> <td style="padding: 2px 10px;">Coconut fatty acid diethanol amide</td> </tr> <tr> <td style="padding: 2px 10px;">Appearance</td> <td style="padding: 2px 10px;">:</td> <td style="padding: 2px 10px;">Transparent light yellow liquid.</td> </tr> <tr> <td style="padding: 2px 10px;">Color (APHA)</td> <td style="padding: 2px 10px;">:</td> <td style="padding: 2px 10px;">300 Max.</td> </tr> <tr> <td style="padding: 2px 10px;">pH (1% in 10% ethanol sol.)</td> <td style="padding: 2px 10px;">:</td> <td style="padding: 2px 10px;">9.9 ~ 10.7</td> </tr> <tr> <td style="padding: 2px 10px;">Total Amine Value</td> <td style="padding: 2px 10px;">:</td> <td style="padding: 2px 10px;">20.0 ~ 40.0</td> </tr> <tr> <td style="padding: 2px 10px;">Biodegradability (%)</td> <td style="padding: 2px 10px;">:</td> <td style="padding: 2px 10px;">98.7</td> </tr> </table> <u>Characteristics and Benefits:</u> The following description are the characteristics and benefits which may be given by making use of Aminon C-02 SA in shampoo formulation: 1. Strong in: foam boosting; stabilization and thickening ability 2. High cleansing ability and mild action skin. 3. Efficiency is not effected by hardness of water <u>Packing:</u> 200 Kgs net in drum.	Chemical description	:	Coconut fatty acid diethanol amide	Appearance	:	Transparent light yellow liquid.	Color (APHA)	:	300 Max.	pH (1% in 10% ethanol sol.)	:	9.9 ~ 10.7	Total Amine Value	:	20.0 ~ 40.0	Biodegradability (%)	:	98.7
Chemical description	:	Coconut fatty acid diethanol amide																
Appearance	:	Transparent light yellow liquid.																
Color (APHA)	:	300 Max.																
pH (1% in 10% ethanol sol.)	:	9.9 ~ 10.7																
Total Amine Value	:	20.0 ~ 40.0																
Biodegradability (%)	:	98.7																

Product Information, Product Information, Product Information, Product Information, Product Information, Product Information, Product

Lampiran 5 : CoA Tetrasodium EDTA



Shanghai Chemex Group Ltd.

Ethylene Diamine Tetraacetic Acid
Tetrasodium salt (EDTA-4Na.4H₂O)

Certificate of Analysis

Manufacturing Date:	Batch No:
04-17-2022	EA-TD03 19 042602

Testing Item:	Specification	Measured value
Appearance	White or off-white granular crystalline powder	off-white granular crystalline powder
Content %	99.00 min	99.71
Chloride %	0.020 Max	0.016
NTA%	1.00 Max	0.27
Sulfate %	0.020 Max	<0.0080
Heavy Metal (ppm)	10 Max	<8
Ferrum (ppm)	10 Max	5
Chelating value (mg(CaCO ₃)/g)	220 min	221
pH value (50 g/L: 25°C)	10.5-11.5	11.08
Bulk Density (kg/m ³)	700-950	855

Tester:



Address: number 188 Aona Road, New Pudong Area, Shanghai, China
Tel: +86-21-50591759 Emergency contact: +86-18616295243 Email: Info@Shanghaichemex.com

Lampiran 6 : Hasil skrining fitokimia ekstrak pegagan

No	Senyawa metabolit	Hasil	Keterangan	Gambar
1.	Flavonoid	+	Terbentuk warna kuning	
2.	Alkaloid	+	(+) Pereaksi dragendoef : terbentuk endapan merah	
3.	Saponin	+	Terbentuk busa	
4.	Tannin	+	Terbentuk warna hijau	
5.	Terpenoid	+	Terbentuk warna hijau atau terbentuk cincin coklat	

Lampiran 7 : Hasil skrining fitokima ekstrak kunyit

No	Senyawa metabolit	Hasil	Keterangan	Gambar
1.	Flavonoid	+	Terbentuk warna jingga	
2.	Alkaloid	+	(+) Pereaksi dragendoef : terbentuk endapan merah	
3.	Saponin	-	Tidak terbentuk busa	
4.	Tannin	+	Terbentuk warna hitam kekuningan	
5.	Terpenoid	+	Terbentuk warna merah	

Lampiran 8 : Data optimasi basis sabun mandi cair antijerawat

a Data uji pH basis sabun mandi cair antijerawat

Replikasi	F1	F2	F3
1	8.01	8.03	8.08
2	8.03	8.06	8.02
3	8	8.04	8.06
Rata-rata	8.01	8.04	8.05
SD	0.02	0.01	0.03

b Data uji viskositas basis sabun mandi cair antijerawat

Replikasi	F1	F2	F3
1	3800	4700	6700
2	3700	4200	5000
3	3600	4400	6800
Rata-rata	3700	4433	6167
SD	81.6	205.4	825.9

c Data uji stabilitas busa basis sabun mandi cair antijerawat

Replikasi	F1	F2	F3
1	83	91.6	92.8
2	81	90.9	91.6
3	85.7	91.6	92
Rata-rata	83.2	91.4	92.1
SD	2.4	0.4	0.6

d Data uji bobot jenis basis sabun mandi cair antijerawat

Replikasi	Formulasi 1	F2	F3
1	1.06	1.073	1.049
2	1.061	1.06	1.05
3	1.076	1.058	1.065
Rata-rata	1.065	1.064	1.055
SD	0.008	0.008	0.008

Lampiran 9 : Hasil Uji pH Formulasi Sabun Mandi Cair Antijerawat

a Data Hasil Uji pH

Formula	Batch 1		Batch 2		Batch 3	
	pH	Rata-rata	pH	Rata-rata	pH	Rata-rata
Formula 0	8.42	8.40±0.02	8.45	8.42±0.03	8.42	8.44±0.03
	8.40		8.39		8.47	
	8.38		8.43		8.45	
Formula 1	7.71	7.74±0.03	7.74	7.77±0.03	7.77	7.78±0.02
	7.77		7.77		7.80	
	7.73		7.79		7.79	
Formula 2	6.03	6.05±0.02	6.01	6.04±0.04	6.04	6.06±0.03
	6.05		6.08		6.06	
	6.08		6.03		6.09	
Formula 3	6.36	6.36±0.03	6.40	6.40±0.01	6.36	6.38±0.03
	6.33		6.39		6.41	
	6.40		6.41		6.38	
Formula 4	7.47	7.48 ±0.03	7.42	7.46±0.06	7.48	7.49±0.02
	7.51		7.52		7.49	
	7.46		7.43		7.51	
Formula 5	7.04	7.06±0.02	7.09	7.07±0.02	7.10	7.08±0.02
	7.08		7.05		7.06	
	7.05		7.08		7.08	

b Data hasil rata-rata uji pH dari 3 batch

Formula	pH			Rata-rata
	Replikasi 1	Replikasi 2	Replikasi 3	
Formula 0	8.40	8.42	8.44	8.42±0.02
Formula 1	7.74	7.77	7.78	7.76±0.02
Formula 2	6.05	6.04	6.06	6.05±0.01
Formula 3	6.36	6.40	6.38	6.38±0.02
Formula 4	7.48	7.46	7.49	7.48±0.02
Formula 5	7.06	7.07	7.08	7.07±0.01

Lampiran 10: Hasil Uji Viskositas Formulasi Sabun Mandi Cair Antijerawat

a Data Hasil Uji Viskositas

Formula	Batch 1		Batch 2		Batch 3	
	Viskositas	Rata-rata (cP)	Viskositas	Rata-rata (cP)	Viskositas	Rata-rata (cP)
Formula 0	3700	3800±100	3600	3700±100	3800	3767±153
	3800		3700		3900	
	3900		3800		3600	
Formula 1	900	900±100	800	800±100	700	867±153
	1000		700		1000	
	800		900		900	
Formula 2	2000	2100±100	1800	1900±100	2100	2067±153
	2100		1900		2200	
	2200		2000		1900	
Formula 3	1100	1100±100	900	1000±100	1000	1033±153
	1000		1000		1200	
	1200		1100		900	
Formula 4	1000	900±100	800	833±152	900	1000±100
	900		1000		1000	
	800		700		1100	
Formula 5	1000	1000±100	1000	1100±100	1100	933±153
	900		1200		900	
	1100		1100		800	

b Data Hasil Rata-rata Uji Viskositas dari 3 Batch

Formulasi	Replikasi			Rata-rata ± SD (cP)
	1	2	3	
F0	3800	3700	3767	3756±50.95
F1	900	800	867	856±50.95
F2	2100	1900	2067	2022±107
F3	1100	1000	1033	1044±50.9
F4	900	833	1000	911±84.04
F5	1000	1100	933	1011±84.04

Lampiran 11 : Hasil Uji Stabilitas Busa Formulasi Sabun Mandi Cair Antijerawat

a Data Hasil Uji Stabilitas Busa

Formula	Batch 1		Batch 2		Batch 3	
	Stabilitas busa	Rata-rata (%)	Stabilitas busa	Rata-rata (%)	Stabilitas busa	Rata-rata (%)
Formula 0	93	93±0.3	92.5	92.4±0.4	93.3	93.5±0.2
	93.3		92.7		93.7	
	92.7		92		93.5	
Formula 1	90.7	90.7±0.2	90.3	90.6±0.8	91.4	90.4±0.9
	90.9		90		90	
	90.5		91.6		89.7	
Formula 2	94.8	94.9±0.3	94.3	93.8±0.4	94.3	94.7±0.8
	95.3		93.5		95.7	
	94.7		93.7		94.2	
Formula 3	94.5	94.2±0.3	92.7	92.4±0.4	93.3	93.5±0.5
	94.3		92		93.1	
	93.9		92.4		94	
Formula 4	91.9	92.2±0.3	90	91.2±1.2	91.6	92.4±0.7
	92.3		92.3		92.7	
	92.5		91.4		92.9	
Formula 5	92.7	92.7±0.3	90.7	90.2±0.4	90.9	91.7±0.9
	93		90		92.7	
	92.4		89.9		91.6	

b Data Hasil Rata-rata Uji Stabilitas Busa dari 3 Batch

Formulasi	Replikasi			Rata-rata ± SD (%)
	1	2	3	
F0	93	92,4	93,5	92,9 ± 0,551
F1	90,7	90,6	90,3	90,5 ± 0,208
F2	94,9	93,8	94,7	94,5 ± 0,586
F3	94,2	92,4	93,5	93,3 ± 0,907
F4	92,2	91,2	92,4	91,7 ± 0,643
F5	92,7	90,2	91,7	91,5 ± 1,258

Lampiran 12 : Hasil Uji Bobot Jenis Formulasi Sabun Mandi Cair Antijerawat

a Data Hasil Uji Bobot Jenis

Formula	Batch 1		Batch 2		Batch 3	
	Bobot jenis	Rata-rata (g/ml)	Bobot jenis	Rata-rata (g/ml)	Bobot jenis	Rata-rata (g/ml)
Formula 0	1.051	1.050±0.002	1.057	1.058±0.001	1.068	1.068±0.001
	1.048		1.058		1.067	
	1.052		1.059		1.069	
Formula 1	1.061	1.061±0.001	1.086	1.087±0.006	1.079	1.077±0.002
	1.060		1.082		1.077	
	1.062		1.094		1.075	
Formula 2	1.083	1.095±0.01	1.100	1.102±0.002	1.097	1.097±0.003
	1.094		1.103		1.100	
	1.107		1.104		1.095	
Formula 3	1.039	1.037±0.002	1.035	1.041±0.006	1.043	1.043±0.002
	1.036		1.045		1.045	
	1.035		1.044		1.042	
Formula 4	1.095	1.089±0.006	1.079	1.084±0.004	1.084	1.087±0.003
	1.086		1.086		1.089	
	1.085		1.087		1.088	
Formula 5	1.070	1.072±0.004	1.070	1.068±0.001	1.076	1.073±0.003
	1.069		1.067		1.071	
	1.077		1.068		1.073	

b Data Hasi Rata-rata Bobot Jenis dari 3 Batch

Formulasi	Replikasi			Rata-rata ± SD (g/ml)
	1	2	3	
F0	1,050	1,058	1,068	1,059 ± 0,009
F1	1,061	1,087	1,077	1,075 ± 0,013
F2	1,095	1,102	1,097	1,098 ± 0,004
F3	1,037	1,041	1,043	1,040 ± 0,003
F4	1,089	1,084	1,087	1,087 ± 0,003
F5	1,072	1,068	1,073	1,071 ± 0,003

Lampiran 13 : Hasil Uji pH Stabilitas Sabun Mandi Cair Antijerawat Metode *Cycling test*a Data hasil pengujian pH stabilitas *Cycling test* sabun mandi antijerawat

Siklus	F0	F1	F2	F3	F4	F5
1	8.46	7.58	6.19	6.51	7.3	7.15
	8.48	7.54	6.15	6.49	7.27	7.25
	8.5	7.53	6.12	6.53	7.34	7.2
Mean	8.48	7.55	6.15	6.51	7.30	7.2
SD	0.02	0.03	0.04	0.02	0.04	0.05
2	8.38	7.46	6.14	6.45	7.29	7.12
	8.35	7.44	6.03	6.42	7.28	7.14
	8.41	7.48	6.07	6.48	7.33	7.16
Mean	8.38	7.46	6.08	6.45	7.3	7.14
SD	0.03	0.02	0.06	0.03	0.03	0.02
3	8.41	7.5	6.15	6.35	7.24	7.08
	8.38	7.52	6.17	6.37	7.2	7.07
	8.4	7.49	6.13	6.4	7.22	7.1
Mean	8.39	7.50	6.15	6.37	7.22	7.08
SD	0.02	0.02	0.02	0.03	0.02	0.02
4	8.31	7.5	6.02	6.25	7.18	7.02
	8.32	7.52	6.03	6.28	7.2	7.04
	8.35	7.49	5.97	6.24	7.22	7.07
Mean	8.33	7.50	6.00	6.26	7.2	7.04
SD	0.02	0.01	0.03	0.02	0.02	0.03
5	8.34	7.35	5.95	6.4	7.16	6.96
	8.36	7.39	5.96	6.36	7.11	7
	8.3	7.36	5.9	6.38	7.12	7.03
Mean	8.33	7.37	5.94	6.38	7.13	6.99
SD	0.03	0.02	0.03	0.02	0.03	0.04
6	8.21	7.34	5.9	6.32	7.22	6.95
	8.23	7.33	5.96	6.30	7.24	6.98
	8.25	7.31	5.86	6.34	7.28	6.92
Mean	8.23	7.33	5.91	6.32	7.25	6.95
SD	0.02	0.02	0.05	0.02	0.03	0.03

b Data hasil rata-rata pengujian pH stabilitas *Cycling test* sabun mandi antijerawat

Siklus	F0	F1	F2	F3	F4	F5
1	8.48	7.55	6.15	6.51	7.3	7.2
2	8.38	7.46	6.08	6.45	7.3	7.14
3	8.39	7.5	6.15	6.37	7.22	7.08
4	8.33	7.5	6.01	6.25	7.2	7.04
5	8.33	7.37	5.94	6.38	7.13	6.99
6	8.23	7.33	5.91	6.32	7.25	6.95
Mean	8.36	7.45	6.04	6.38	7.23	7.07
SD	0.08	0.08	0.10	0.09	0.07	0.09

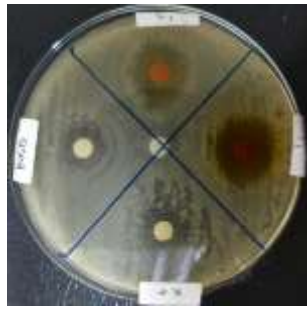
Lampiran 14 : Hasil Uji Viskositas Stabilitas Sabun Mandi Cair Metode *Cycling test*a Data hasil pengujian viskositas stabilitas *Cycling test* sabun mandi antijerawat

siklus	F0	F1	F2	F3	F4	F5
1	3200	800	1900	1000	800	1000
	3100	900	1800	1100	700	900
	3000	900	2000	900	900	1000
Mean	3100	867	1900	1000	800	967
SD	100	57.7	100	100	100	57.7
2	3000	800	1900	1000	900	900
	2800	900	2000	1000	800	1000
	2900	800	1800	900	800	1000
Mean	2900	833	1900	967	833	967
SD	100	57.7	100	57.7	57.7	57.7
3	2700	800	1900	900	700	800
	2900	600	2000	1000	600	900
	2800	900	1700	1000	800	1000
Mean	2800	767	1867	967	700	900
SD	100	152.7	152.7	57.7	100	100
4	2700	700	1600	800	800	800
	2800	800	1800	800	600	800
	2700	600	1700	700	800	900
Mean	2733	700	1700	767	733	833
SD	57.7	100	100	57.7	115.4	57.7
5	2600	600	1600	700	600	1000
	2800	500	1500	600	900	900
	2700	800	1800	800	800	800
Mean	2700	633	1633	700	767	900
SD	100	152.7	152.7	100	152.7	100
6	2500	400	1500	800	800	1000
	2600	600	1400	500	700	800
	2700	500	1600	900	800	800
Mean	2600	500	1500	733	767	867
SD	100	100	100	208.1	57.7	115.4

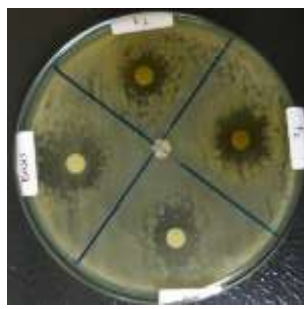
b Data hasil pengujian pH stabilitas *Cycling test* sabun mandi antijerawat

Siklus	F0	F1	F2	F3	F4	F5
1	3100	867	1900	1000	800	967
2	2900	833	1900	967	833	967
3	2800	767	1867	967	700	900
4	2733	700	1700	767	733	833
5	2700	633	1633	700	767	900
6	2600	500	1500	733	767	867
Mean	2806	717	1750	856	767	906
SD	175.7	136.3	165.8	136.2	47.09	53.6

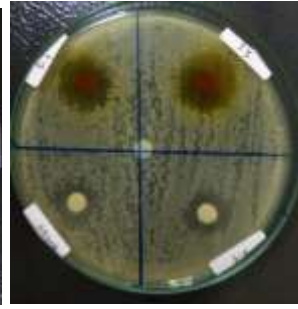
Lampiran 15 : Hasil Uji Aktivitas Antijerawat Sabun Mandi Cair



Formula 1



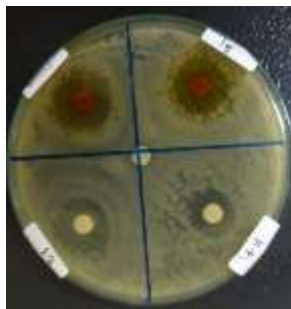
Formula 2



Formula 3



Formula 4



Formula 5

Lampiran 16 : Hasil optimasi basis sabun mandi cair dengan *One Way ANOVA*

a Hasil uji pH

Tests of Normality

Formula	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
pH F1	.253	3	.	.964	3	.637
F2	.253	3	.	.964	3	.637
F3	.253	3	.	.964	3	.637

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

pH

Levene Statistic	df1	df2	Sig.
1.282	2	6	.344

ANOVA

pH

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.003	2	.001	2.786	.139
Within Groups	.003	6	.000		
Total	.005	8			

b Hasil uji viskositas

Tests of Normality

Formula	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
viskositas F1	.175	3	.	1.000	3	1.000
F2	.219	3	.	.987	3	.780
F3	.368	3	.	.792	3	.094

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

viskositas

Levene Statistic	df1	df2	Sig.
9.742	2	6	.013

ANOVA

viskositas

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	9626666.667	2	4813333.333	13.167	.006
Within Groups	2193333.333	6	365555.556		
Total	11820000.00	8			

c Hasil uji stabilitas busa

Tests of Normality

Formula	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
stabilitas busa F1	.206	3	.	.993	3	.836
F2	.337	3	.	.855	3	.253
F3	.253	3	.	.964	3	.637

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

stabilitas busa

Levene Statistic	df1	df2	Sig.
3.091	2	6	.119

ANOVA

stabilitas busa

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	143.082	2	71.541	35.300	.000
Within Groups	12.160	6	2.027		
Total	155.242	8			

Multiple Comparisons

Dependent Variable: stabilitas busa

Tukey HSD

(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
F1	F2	-7.9333*	1.1624	.001	-11.500	-4.367
	F3	-8.9000*	1.1624	.001	-12.466	-5.334
F2	F1	7.9333*	1.1624	.001	4.367	11.500
	F3	-.9667	1.1624	.699	-4.533	2.600
F3	F1	8.9000*	1.1624	.001	5.334	12.466
	F2	.9667	1.1624	.699	-2.600	4.533

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

d Hasil uji bobot jenis

Tests of Normality

		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
stabilitas busa	F1	.365	3	.	.797	3	.107
	F2	.340	3	.	.848	3	.235
	F3	.365	3	.	.797	3	.107

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

stabilitas busa

Levene Statistic	df1	df2	Sig.
.050	2	6	.951

ANOVA

stabilitas busa

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.000	2	.000	1.361	.325
Within Groups	.000	6	.000		
Total	.001	8			

Lampiran 17 : Hasil Uji Analisis Statistik *One Way* ANOVA Formulasi Sabun Mandi Caira Hasil Uji Reprodusibilitas pH Dengan *One Way* ANOVA**Tests of Normality**

		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Formula_0	Bach 1	.175	3	.	1.000	3	1.000
	Bach 2	.253	3	.	.964	3	.637
	Bach 3	.219	3	.	.987	3	.780
Formula_1	Bach 1	.253	3	.	.964	3	.637
	Bach 2	.219	3	.	.987	3	.780
	Bach 3	.253	3	.	.964	3	.637
Formula_2	Bach 1	.219	3	.	.987	3	.780
	Bach 2	.276	3	.	.942	3	.537
	Bach 3	.219	3	.	.987	3	.780
Formula_3	Bach 1	.204	3	.	.993	3	.843
	Bach 2	.175	3	.	1.000	3	1.000
	Bach 3	.219	3	.	.987	3	.780
Formula_4	Bach 1	.314	3	.	.893	3	.363
	Bach 2	.353	3	.	.824	3	.174
	Bach 3	.253	3	.	.964	3	.637
Formula_5	Bach 1	.292	3	.	.923	3	.463
	Bach 2	.292	3	.	.923	3	.463
	Bach 3	.175	3	.	1.000	3	1.000

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

	Levene Statistic	df1	df2	Sig.
Formula_0	.366	2	6	.708
Formula_1	.704	2	6	.531
Formula_2	.430	2	6	.669
Formula_3	1.371	2	6	.323
Formula_4	4.555	2	6	.063
Formula_5	.054	2	6	.948

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
Formula_0	Between Groups	.003	2	.002	2.492	.163
	Within Groups	.004	6	.001		
	Total	.007	8			
Formula_1	Between Groups	.004	2	.002	3.167	.115
	Within Groups	.004	6	.001		
	Total	.007	8			
Formula_2	Between Groups	.001	2	.000	.481	.640
	Within Groups	.005	6	.001		
	Total	.006	8			
Formula_3	Between Groups	.002	2	.001	1.542	.288
	Within Groups	.004	6	.001		
	Total	.006	8			
Formula_4	Between Groups	.002	2	.001	.782	.499
	Within Groups	.008	6	.001		
	Total	.010	8			
Formula_5	Between Groups	.001	2	.000	1.026	.414
	Within Groups	.003	6	.000		
	Total	.003	8			

b Hasil Uji Reprodusibilitas Viskositas Dengan *One Way ANOVA***Tests of Normality**

BACH		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Formula_0	Bach 1	.175	3	.	1.000	3	1.000
	Bach 2	.175	3	.	1.000	3	1.000
	Bach 3	.253	3	.	.964	3	.637
Formula_1	Bach 1	.175	3	.	1.000	3	1.000
	Bach 2	.175	3	.	1.000	3	1.000
	Bach 3	.253	3	.	.964	3	.637
Formula_2	Bach 1	.175	3	.	1.000	3	1.000
	Bach 2	.175	3	.	1.000	3	1.000
	Bach 3	.253	3	.	.964	3	.637
Formula_3	Bach 1	.175	3	.	1.000	3	1.000
	Bach 2	.175	3	.	1.000	3	1.000
	Bach 3	.253	3	.	.964	3	.637
Formula_4	Bach 1	.175	3	.	1.000	3	1.000
	Bach 2	.253	3	.	.964	3	.637
	Bach 3	.175	3	.	1.000	3	1.000
Formula_5	Bach 1	.175	3	.	1.000	3	1.000
	Bach 2	.175	3	.	1.000	3	1.000
	Bach 3	.253	3	.	.964	3	.637

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

	Levene Statistic	df1	df2	Sig.
Formula_0	.516	2	6	.621
Formula_1	.516	2	6	.621
Formula_2	.516	2	6	.621
Formula_3	.516	2	6	.621
Formula_4	.516	2	6	.621
Formula_5	.516	2	6	.621

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
Formula_0	Between Groups	15555.556	2	7777.778	.538	.609
	Within Groups	86666.667	6	14444.444		
	Total	102222.222	8			
Formula_1	Between Groups	15555.556	2	7777.778	.538	.609
	Within Groups	86666.667	6	14444.444		
	Total	102222.222	8			
Formula_2	Between Groups	68888.889	2	34444.444	2.385	.173
	Within Groups	86666.667	6	14444.444		
	Total	155555.556	8			
Formula_3	Between Groups	15555.556	2	7777.778	.538	.609
	Within Groups	86666.667	6	14444.444		
	Total	102222.222	8			
Formula_4	Between Groups	42222.222	2	21111.111	1.462	.304
	Within Groups	86666.667	6	14444.444		
	Total	128888.889	8			
Formula_5	Between Groups	42222.222	2	21111.111	1.462	.304
	Within Groups	86666.667	6	14444.444		
	Total	128888.889	8			

d Hasil Uji Reprodusibilitas Stabilitas Busa Dengan *One Way ANOVA***Tests of Normality**

BACH		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Formula_0	Bach 1	.175	3	.	1.000	3	1.000
	Bach 2	.276	3	.	.942	3	.537
	Bach 3	.175	3	.	1.000	3	1.000
Formula_1	Bach 1	.175	3	.	1.000	3	1.000
	Bach 2	.319	3	.	.885	3	.339
	Bach 3	.324	3	.	.878	3	.317
Formula_2	Bach 1	.328	3	.	.871	3	.298
	Bach 2	.292	3	.	.923	3	.463
	Bach 3	.364	3	.	.800	3	.114
Formula_3	Bach 1	.253	3	.	.964	3	.637
	Bach 2	.204	3	.	.993	3	.843
	Bach 3	.304	3	.	.907	3	.407
Formula_4	Bach 1	.253	3	.	.964	3	.637
	Bach 2	.224	3	.	.984	3	.762
	Bach 3	.333	3	.	.862	3	.274
Formula_5	Bach 1	.175	3	.	1.000	3	1.000
	Bach 2	.343	3	.	.842	3	.220
	Bach 3	.225	3	.	.984	3	.756

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

	Levene Statistic	df1	df2	Sig.
Formula_0	.600	2	6	.579
Formula_1	3.809	2	6	.086
Formula_2	3.382	2	6	.104
Formula_3	.530	2	6	.614
Formula_4	1.968	2	6	.220
Formula_5	1.845	2	6	.237

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
Formula_0	Between Groups	1.820	2	.910	10.500	.011
	Within Groups	.520	6	.087		
	Total	2.340	8			
Formula_1	Between Groups	.187	2	.093	.176	.842
	Within Groups	3.173	6	.529		
	Total	3.360	8			
Formula_2	Between Groups	2.060	2	1.030	3.153	.116
	Within Groups	1.960	6	.327		
	Total	4.020	8			
Formula_3	Between Groups	5.282	2	2.641	18.008	.003
	Within Groups	.880	6	.147		
	Total	6.162	8			
Formula_4	Between Groups	2.389	2	1.194	1.860	.235
	Within Groups	3.853	6	.642		
	Total	6.242	8			
Formula_5	Between Groups	9.536	2	4.768	12.964	.007
	Within Groups	2.207	6	.368		
	Total	11.742	8			

e Hasil Uji Reprodusibilitas Bobot Jenis Dengan *One Way ANOVA*

Tests of Normality

	BACH	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Formula_0	Bach 1	.292	3	.	.923	3	.463
	Bach 2	.175	3	.	1.000	3	1.000
	Bach 3	.175	3	.	1.000	3	1.000
Formula_1	Bach 1	.175	3	.	1.000	3	1.000
	Bach 2	.253	3	.	.964	3	.637
	Bach 3	.175	3	.	1.000	3	1.000
Formula_2	Bach 1	.189	3	.	.998	3	.908
	Bach 2	.292	3	.	.923	3	.463
	Bach 3	.219	3	.	.987	3	.780
Formula_3	Bach 1	.292	3	.	.923	3	.463
	Bach 2	.353	3	.	.824	3	.174
	Bach 3	.253	3	.	.964	3	.637
Formula_4	Bach 1	.353	3	.	.824	3	.174
	Bach 2	.343	3	.	.842	3	.220
	Bach 3	.314	3	.	.893	3	.363
Formula_5	Bach 1	.343	3	.	.842	3	.220
	Bach 2	.253	3	.	.964	3	.637
	Bach 3	.219	3	.	.987	3	.780

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

	Levene Statistic	df1	df2	Sig.
Formula_0	1.730	2	6	.255
Formula_1	3.905	2	6	.082
Formula_2	2.853	2	6	.135
Formula_3	5.333	2	6	.047
Formula_4	1.626	2	6	.273
Formula_5	2.655	2	6	.149

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
Formula_0	Between Groups	.000	2	.000	111.526	.000
	Within Groups	.000	6	.000		
	Total	.000	8			
Formula_1	Between Groups	.001	2	.001	37.425	.000
	Within Groups	.000	6	.000		
	Total	.001	8			
Formula_2	Between Groups	.000	2	.000	.880	.462
	Within Groups	.000	6	.000		
	Total	.000	8			
Formula_3	Between Groups	.000	2	.000	2.847	.135
	Within Groups	.000	6	.000		
	Total	.000	8			
Formula_4	Between Groups	.000	2	.000	.893	.457
	Within Groups	.000	6	.000		
	Total	.000	8			
Formula_5	Between Groups	.000	2	.000	2.181	.194
	Within Groups	.000	6	.000		
	Total	.000	8			

g Hasil Uji pH Stabilitas *Cycling test* Dengan *One Way ANOVA***Tests of Normality**

siklus	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
F0 siklus 1	.175	3	.	1.000	3	1.000
siklus 2	.175	3	.	1.000	3	1.000
siklus 3	.253	3	.	.964	3	.637
siklus 4	.292	3	.	.923	3	.463
siklus 5	.253	3	.	.964	3	.637
siklus 6	.175	3	.	1.000	3	1.000
F1 siklus 1	.314	3	.	.893	3	.363
siklus 2	.175	3	.	1.000	3	1.000
siklus 3	.253	3	.	.964	3	.637
siklus 4	.253	3	.	.964	3	.637
siklus 5	.292	3	.	.923	3	.463
siklus 6	.253	3	.	.964	3	.637
F2 siklus 1	.204	3	.	.993	3	.843
siklus 2	.238	3	.	.976	3	.702
siklus 3	.175	3	.	1.000	3	1.000
siklus 4	.328	3	.	.871	3	.298
siklus 5	.328	3	.	.871	3	.298
siklus 6	.219	3	.	.987	3	.780
F3 siklus 1	.175	3	.	1.000	3	1.000
siklus 2	.175	3	.	1.000	3	1.000
siklus 3	.219	3	.	.987	3	.780
siklus 4	.292	3	.	.923	3	.463
siklus 5	.175	3	.	1.000	3	1.000
siklus 6	.175	3	.	1.000	3	1.000
F4 siklus 1	.204	3	.	.993	3	.843
siklus 2	.314	3	.	.893	3	.363
siklus 3	.175	3	.	1.000	3	1.000
siklus 4	.175	3	.	1.000	3	1.000
siklus 5	.314	3	.	.893	3	.363
siklus 6	.253	3	.	.964	3	.637
F5 siklus 1	.175	3	.	1.000	3	1.000
siklus 2	.175	3	.	1.000	3	1.000
siklus 3	.253	3	.	.964	3	.637
siklus 4	.219	3	.	.987	3	.780
siklus 5	.204	3	.	.993	3	.843
siklus 6	.175	3	.	1.000	3	1.000

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

	Levene Statistic	df1	df2	Sig.
F0	.381	5	12	.852
F1	.509	5	12	.764
F2	.776	5	12	.585
F3	.153	5	12	.975
F4	.384	5	12	.851
F5	.648	5	12	.669

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
F0	Between Groups	.105	5	.021	38.004	.000
	Within Groups	.007	12	.001		
	Total	.111	17			
F1	Between Groups	.114	5	.023	61.137	.000
	Within Groups	.004	12	.000		
	Total	.118	17			
F2	Between Groups	.168	5	.034	21.640	.000
	Within Groups	.019	12	.002		
	Total	.187	17			
F3	Between Groups	.122	5	.024	46.200	.000
	Within Groups	.006	12	.001		
	Total	.128	17			
F4	Between Groups	.064	5	.013	17.716	.000
	Within Groups	.009	12	.001		
	Total	.073	17			
F5	Between Groups	.127	5	.025	25.907	.000
	Within Groups	.012	12	.001		
	Total	.139	17			

i Hasil Uji Viskositas Stabilitas *Cycling test* Dengan *Kruskal Wallis***Tests of Normality**

siklus	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
F0 siklus 1	.175	3	.	1.000	3	1.000
siklus 2	.175	3	.	1.000	3	1.000
siklus 3	.175	3	.	1.000	3	1.000
siklus 4	.385	3	.	.750	3	.000
siklus 5	.175	3	.	1.000	3	1.000
siklus 6	.175	3	.	1.000	3	1.000
F1 siklus 1	.385	3	.	.750	3	.000
siklus 2	.385	3	.	.750	3	.000
siklus 3	.253	3	.	.964	3	.637
siklus 4	.175	3	.	1.000	3	1.000
siklus 5	.253	3	.	.964	3	.637
siklus 6	.175	3	.	1.000	3	1.000
F2 siklus 1	.175	3	.	1.000	3	1.000
siklus 2	.175	3	.	1.000	3	1.000
siklus 3	.253	3	.	.964	3	.637
siklus 4	.175	3	.	1.000	3	1.000
siklus 5	.253	3	.	.964	3	.637
siklus 6	.175	3	.	1.000	3	1.000
F3 siklus 1	.175	3	.	1.000	3	1.000
siklus 2	.385	3	.	.750	3	.000
siklus 3	.385	3	.	.750	3	.000
siklus 4	.385	3	.	.750	3	.000
siklus 5	.175	3	.	1.000	3	1.000
siklus 6	.292	3	.	.923	3	.463
F4 siklus 1	.175	3	.	1.000	3	1.000
siklus 2	.385	3	.	.750	3	.000
siklus 3	.175	3	.	1.000	3	1.000
siklus 4	.385	3	.	.750	3	.000
siklus 5	.253	3	.	.964	3	.637
siklus 6	.385	3	.	.750	3	.000
F5 siklus 1	.385	3	.	.750	3	.000
siklus 2	.385	3	.	.750	3	.000
siklus 3	.175	3	.	1.000	3	1.000
siklus 4	.385	3	.	.750	3	.000
siklus 5	.175	3	.	1.000	3	1.000
siklus 6	.385	3	.	.750	3	.000

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

	Levene Statistic	df1	df2	Sig.
F0	.087	5	12	.993
F1	.974	5	12	.472
F2	.413	5	12	.831
F3	2.260	5	12	.115
F4	.886	5	12	.519
F5	.640	5	12	.674

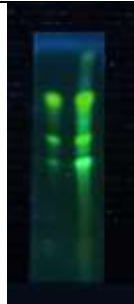
Test Statistics^{a,b}

	F0	F1	F2	F3	F4	F5
Chi-Square	13.252	10.868	11.735	12.695	3.595	5.561
df	5	5	5	5	5	5
Asymp. Sig.	.021	.054	.039	.026	.609	.351

a. Kruskal Wallis Test

b. Grouping Variable: siklus

Lampiran 18 : Dokumentasi KLT kurkumin pada ekstrak kunyit

		
Ekstrak kunyit	Baku pembanding kurkumin	Proses KLT dengan fase gerak kloroform p : methanol p (95:5)
		
Hasil KLT secara visual	Hasil KLT dibawah lampu UV 366	

Lampiran 19: Dokumentasi Optimasi basis sabun mandi cair

		
Penimbangan bahan	Proses homogenizer	Basis sabun mandi cair
Evaluasi Optimasi basis sabun mandi cair		
		
Uji pH	Uji viskositas	Uji stabilitas busa
		
Uji bobot jenis		

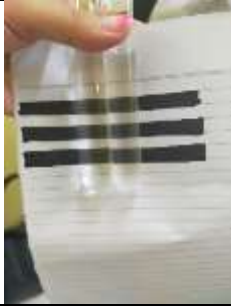
Lampiran 20 : Dokumentasi formulasi sabun mandi cair antijerawat

			
Penimbangan bahan	Proses homogenizer		
			
Sabun mandi cair batch 1	Sabun mandi cair batch 2	Sabun mandi cair batch 3	
Evaluasi formula sediaan sabun mandi cair			
			
pH	Viskositas	Stabilitas busa	Bobot jenis

Lampiran 21: Stabilitas *Cycling test* selama 6 siklus

		
<i>Cycling test siklus 1</i>	pH	Viskositas
		
<i>Cycling test siklus 2</i>	pH	Viskositas
		
<i>Cycling test siklus 3</i>	pH	Viskositas
		
<i>Cycling test siklus 4</i>	pH	Viskositas
		
<i>Cycling test siklus 5</i>	pH	Viskositas
		
<i>Cycling test siklus 6</i>	pH	Viskositas

Lampiran 22: Dokumentasi uji aktivitas antijerawat

			
Sterilisasi alat	Hasil peremajaan bakteri	Hasil pewarnaan bakteri	Pembuatan media NA
			
Standar Mc. Farland 0,5	Suspensi bakteri	Pengujian antibakteri menggunakan BSC	Menghomogenkan menggunakan Fortek

Lampiran 23 : Kartu Bimbingan



No. Dok. 02.64.00/FRM-03/AKD-SPM



KARTU BIMBINGAN TUGAS AKHIR I/TUGAS AKHIR II

Pembimbing Utama	: Apt. Yanni Dhiyani Mardhani, M.Bsc
Nama Mahasiswa	: Dila Nurfadilah
NPM	: 191FF03108
Bidang Ilmu	: Farmasetika Teknologi Farmasi

No	Hari/Tanggal	Waktu	Tempat	Materi	Paraf Dosen
1.	Senin, 8 maret 2023	12.00 - selesai	Rumah bu yanni	Diskusi hasil seminar proposal	
2.	Kamis, 16 maret 2023	12.44 - selesai	wa	Diskusi formulasi basis sabun mandi cair dan parameter evaluasi basis sabun	
3.	Selasa, 28 maret 2023	15.46 - selesai	wa	Hasil percobaan optimasi basis sabun mandi cair	
4.	Senin, 3 april 2023	11.00 - selesai	g.meet	Diskusi hasil optimasi basis sabun mandi cair	
5.	Senin, 17 April 2023	10.00 - selesai	g.meet	Persentasi laporan kemajuan 1 TA2	
6.	5 mei 2023	10.30 - selesai	wa	Konfirmasi mengenai kadar SLS dan pH pada formulasi sediaan sabun	
7.	11 mei 2023	10.42 - selesai	wa	Konfirmasi penambahan buffer	
8.	23 mei 2023	12.36 - selesai	wa	Konfirmasi evaluasi formulasi sediaan sabun dan uji stabilitas	
9.	kamis, 18 mei 2023	15.15 - selesai	zoom	Persentasi laporan kemajuan 2	
10.	Rabu, 7 juni 2023	11.00 - selesai	Kampus	konfirmasi data hasil evaluasi formula sabun mandi cair	
11.	Sabtu, 8 juli 2023	10.00 - selesai	Rumah bu yanni	konfirmasi pembahasan skripsi	

Catatan : Kartu ini harus dibawa setiap kali melakukan bimbingan dan harus diisi oleh dosen pembimbing.

KARTU BIMBINGAN TUGAS AKHIR I/TUGAS AKHIR II

Pembimbing Serta	: Rahma Ziska, M.Si
Nama Mahasiswa	: Dila Nurfadilah
NPM	: 191FF03108
Bidang Ilmu	: Farmasetika Teknologi Farmasi

[illegible]

Catatan : Kartu ini harus dibawa setiap kali melakukan bimbingan dan harus diisi oleh dosen pembimbing.

Lampiran 24 : Daftar Riwayat Hidup

DAFTAR RIWAYAT HIDUP

Nama : Dila Nurfadilah
 Tempat/Tanggal Lahir : Garut, 16 Agustus 2001
 Jenis Kelamin : Perempuan
 Agama : Islam
 Kewarganegaraan : Indonesia
 Alamat : Cigondewah kaler, RT 03 RW 04, Kel. Cigondewah kalere,
 Kec. Bandung kulon, Kota Bandung
 Telepon : 085722956517
 Email : dilanurfadilah64@gmail.com

PENDIDIKAN

TK : TK PGRI Garut
 SD : SDN Margahayu 2
 SMP : SMPN 1 Banyuresmi
 SMK : SMKN 1 Garut
 S1 : Universitas Bhakti Kencana Bandung