

LAMPIRAN

Lampiran 1. Certificate of Analysis (CoA)



PT. Darjeeling Sembrani Aroma

Wisma Monex Lt 9, Jl. Asia Afrika No. 133-137
Bandung, 40112
Tel. 022-4235600

Certificate of Analysis

Product name: Sunflower seed oil, virgin
Lot number: DA/00168S
Mfg. Date: 15/02/2020
Best before: 15/02/2022

CAS No: 8001-21-6
Botanical name: Helianthus annuus
Origin: India

Storage conditions: Store in a cool, dry place in tightly sealed containers.

Parameter	Specification	Result	Method
Colour	Yellow liquid	Yellow liquid	Visual
Specific gravity at 25°C	0.909 - 0.925	0.911	FCC
Refractive index at 20°C	1.467 - 1.471	1.469	FCC

Fatty Acid Composition (FAME Test)

Linoleic acid	19.21%
Oleic acid	67.00%
Palmitic acid	5.35%
Stearic acid	4.12%

Important disclaimer:

The entire of information contained in this (COA) has been obtained from most current and reliable sources.
No information contained herein should be interpreted as a recommendation to infringe existing patents or violate any laws or regulations. The sole responsibility of the suitability of the material lies with the end user(s).
All customers who purchase any products from PT Darjeeling Sembrani Aroma are hereby clearly notified that all such products must be used at the customers' / end users own discretions and only after referencing the full and complete data available herein and all other relevant product specific technical information.
PT Darjeeling Sembrani Aroma shall not be held responsible for any damages to the property or for any adverse physical effects (including injury or bodily harm) caused due to and by insufficient knowledge and/or the improper use of the products (s). The user(s) of any such product(s) will be wholly and solely responsible for compliance with all laws and abiding by the laid down rules and regulations in regards with the use and applicability of the product(s) and this includes the intellectual property rights of third parties as with any manufacturing process.
As the ordinary or otherwise uses of any product is beyond and outside the control of PT Darjeeling Sembrani Aroma there is no representation or warranty, expressed or implied is made as to the effect(s) of such use(s) (including damage of injury), or the results obtained.

Approved by
Manager - QA

Lampiran 2. Ethical clearance

1/29/2021

KEPK-RSDM

 **HEALTH RESEARCH ETHICS COMITTE**
KOMISI ETIK PENELITIAN KESEHATAN

Dr. Moewardi General Hospital
RSUD Dr. Moewardi

ETHICAL CLEARANCE
KELAIKAN ETIK

Nomor : 30 / 1 / HREC / 2021

The Health Research Ethics Committee Dr. Moewardi
Komisi Etik Penelitian Kesehatan RSUD Dr. Moewardi

after reviewing the proposal design, herewith to certify
setelah menilai rancangan penelitian yang diusulkan, dengan ini menyatakan

That the research proposal with topic :
Bahwa usulan penelitian dengan judul

Uji Aktivitas Krim M/A Minyak Biji Bunga Matahari (*Helianthus annuus L.*) Terhadap Luka Sayat Kelinci New zealand

Principal investigator : Febridatul Karomah
Peneliti Utama 23175063A

Location of research : Laboratorium Farmasi Universitas Setia Budi
Lokasi Tempat Penelitian

Is ethically approved
Dinyatakan layak etik

Issued on: 29 Januari 2021

Chairman
Ketua

Dr. Wahyu Dwi Atmoko, Sp.F
19770224.201001.1.004

<https://komisi-etika.rsmoewardi.com/kep/ethicalclearance/23175063A-005?>

1/1

Lampiran 3. Surat keterangan hewan uji

"ABIMANYU FARM"

↓ Mencit putih jantan ↓ Tikus Wistar ↓ Swis Webster ↓ Cacing
↓ Mencit Balb/C ↓ Kelinci New Zealand
Ngampon RT 04 / RW 04. Mojosongo Kec. Jebres Surakarta. Phone 085 629 994 33 / Lab USB Ska

Yang bertanda tangan di bawah ini:

Nama : Sigit Pramono

Selaku pengelola Abimanyu Farm, menerangkan bahwa hewan uji yang digunakan untuk penelitian, oleh:

Nama : Febridatul Karomah

Nim : 23175063A

Institusi : Universitas Setia Budi Surakarta

Merupakan hewan uji dengan spesifikasi sebagai berikut:

Jenis hewan : Kelinci New Zealand

Umur : 2-3 bulan

Jenis kelamin : Jantan

Jumlah : 5 ekor

Keterangan : Sehat

Asal-usul : Unit Pengembangan Hewan Percobaan Boyolali

Yang pengembangan dan pengelolaannya disesuaikan standar baku penelitian. Demikian surat keterangan ini dibuat untuk digunakan sebagaimana mestinya.

Surakarta, 13 Juni 2021

Hormat kami



Sigit Pramono
"ABIMANYU FARM"

Lampiran 4. Hasil karakterisasi minyak biji bunga matahari (*Helianthus annuus L.*)

b. Organoleptik

- Warna = kuning transparan
 Bau = khas minyak biji bunga matahari
 Konsistensi = cair



c. Kelarutan dalam etanol

Sukar larut dalam etanol 90%.

- 1 ml minyak, dalam 1 ml etanol 90% (tidak larut)
- 1 ml minyak, dalam 2 ml etanol 90% (tidak larut)
- 1 ml minyak, dalam 3 ml etanol 90% (tidak larut)
- 1 ml minyak, dalam 4 ml etanol 90% (tidak larut)
- 1 ml minyak, dalam 5 ml etanol 90% (tidak larut)
- 1 ml minyak, dalam 6 ml etanol 90% (tidak larut)
- 1 ml minyak, dalam 7 ml etanol 90% (tidak larut)
- 1 ml minyak, dalam 8 ml etanol 90% (tidak larut)
- 1 ml minyak, dalam 9 ml etanol 90% (tidak larut)
- 1 ml minyak, dalam 10 ml etanol 90% (tidak larut)



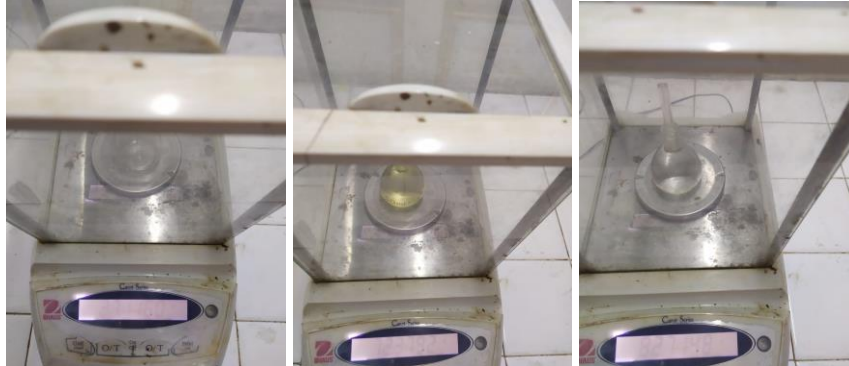
d. Penetapan bobot jenis (BJ)

Pikno kosong (g)	Pikno + air (g)	Pikno + minyak (g)	Air (g)	Minyak (g)	BJ
27,2110	81,5231	76,5672	54,3121	49,3562	0,909

- Bobot piknometer kosong = 27, 2110 g
 Bobot piknometer + air = 81,5231 g
 Bobot piknometer + minyak = 76,5672 g
 Bobot air = 54,3121 g

Bobot minyak
BJ minyak

$$= 49,3562 \text{ g}$$
$$= 49,3562/54,3121 = 0,909$$



- e. Indeks bias
Indeks bias dengan refraktrometer 1,471



Lampiran 5. Gambar pengujian mutu fisik krim minyak biji bunga matahari (*Helianthus annuus* L.)

Gambar formula



Homogenitas

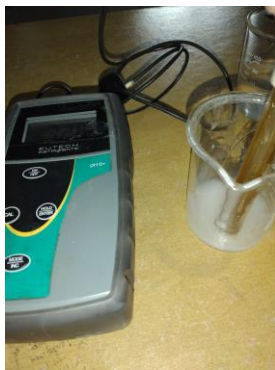
Viskositas



pH



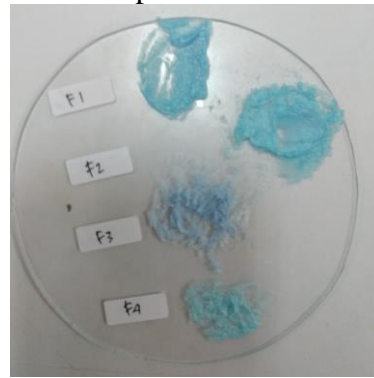
Tipe krim



Daya sebar



Daya lekat



Stabilitas

Sebelum

Sesudah



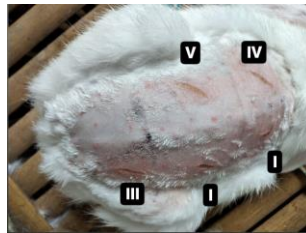
Lampiran 6. Hasil uji aktivitas penyembuhan luka sayat

Pembuatan luka

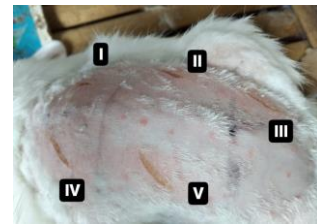


Luka hari ke-3

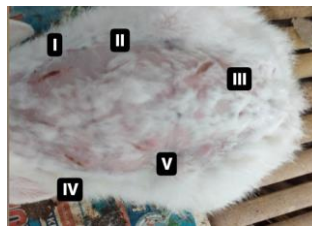
Kelinci A



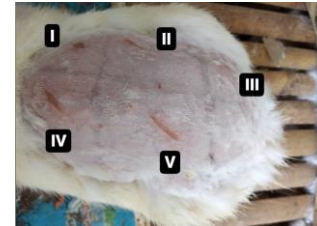
Kelinci B



Kelinci C



Kelinci D

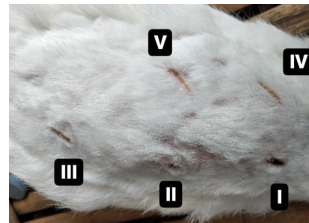


Kelinci E

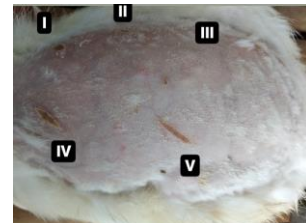


Luka hari ke-7

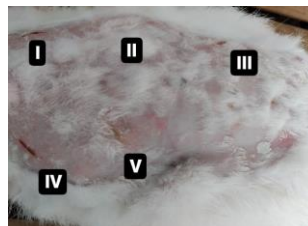
Kelinci A



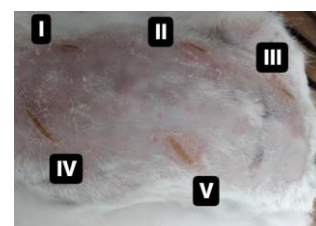
Kelinci B



Kelinci C



Kelinci D

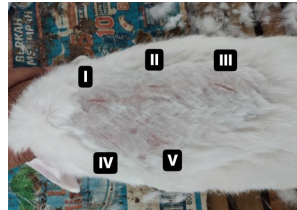


Kelinci E

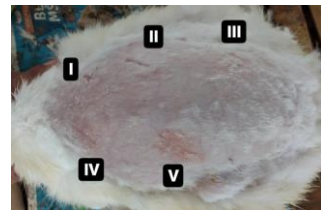


Luka hari ke – 14

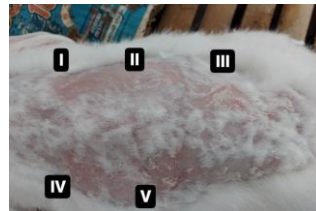
Kelinci A



Kelinci B



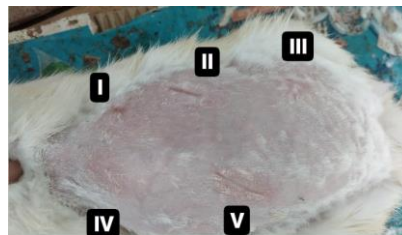
Kelinci C

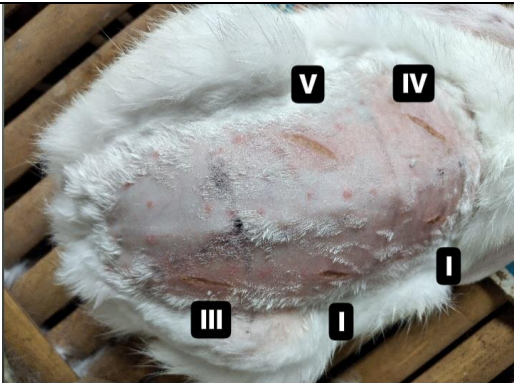

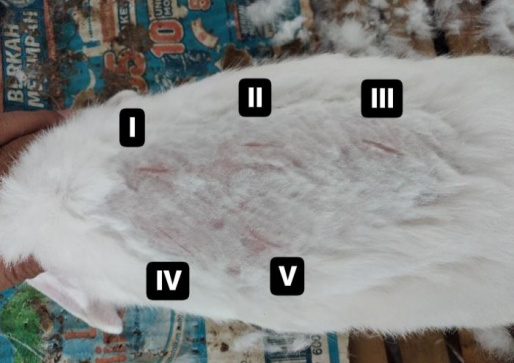


Kelinci D



Kelinci E



No	Hari	Hasil
1	Luka ke – 3	
2	Luka ke – 7	
3	Luka ke – 14	

Gambar 12. Hasil uji luka sayat

Keterangan :

- I : dioleskan krim Betason (kontrol prositif)
- II : dioleskan krim minyak biji bunga matahari 5%
- III : dioleskan krim minyak biji bunga matahari 10%
- IV : dioleskan krim minyak biji bunga matahari 15%
- V : dioleskan basis krim (kontrol negatif)

Lampiran 7. Hasil uji mutu fisik krim minyak biji bunga matahari (*Helianthus annuus* L.)

Viskositas hari ke 1 – 21

Formula	Hari ke 1					Hari ke 7				
	1	2	3	Rata-rata	SD	1	2	3	Rata-rata	SD
F1	110	100	120	110,00	10,00	110	110	100	106,67	5,77
F2	120	130	130	126,67	5,77	130	120	110	120,00	10,00
F3	170	160	180	170	10,00	150	160	170	160,00	10,00
F4	190	180	200	190,00	10,00	180	190	190	186,67	5,77

Formula	Hari ke 14					Hari ke 21				
	1	2	3	Rata-rata	SD	1	2	3	Rata-rata	SD
F1	100	110	100	103,33	5,77	100	110	100	103,33	5,77
F2	110	120	120	116,67	5,77	120	110	110	113,33	5,77
F3	150	160	150	153,33	5,77	150	160	140	150,00	10,00
F4	180	190	180	183,33	5,77	180	170	180	176,67	5,77

pH hari ke 1 – 21

Formula	Hari ke 1					Hari ke 7				
	1	2	3	Rata-rata	SD	1	2	3	Rata-rata	SD
F1	5,14	5,21	5,56	5,30	0,23	5,11	5,21	5,15	5,16	0,05
F2	5,23	5,51	5,19	5,31	0,17	5,35	5,46	5,56	5,46	0,11
F3	5,31	5,47	5,23	5,34	0,12	5,47	5,35	5,46	5,43	0,07
F4	5,35	5,57	5,63	5,52	0,15	5,51	5,32	5,43	5,42	0,10

Formula	Hari ke 14					Hari ke 21				
	1	2	3	Rata-rata	SD	1	2	3	Rata-rata	SD
F1	5,32	5,19	5,3	5,26	0,07	5,93	5,8	5,6	5,80	0,15
F2	5,75	5,53	5,6	5,63	0,11	5,43	5,3	5,4	5,36	0,09
F3	5,84	5,71	5,8	5,77	0,07	5,07	5,1	5	5,03	0,05
F4	5,68	5,73	5,8	5,73	0,05	4,7	4,7	4,8	4,70	0,05

Daya sebar formula 1 hari ke 1 – 21

Beban	Hari ke 1					Hari ke 7				
	1	2	3	Rata-rata	SD	1	2	3	Rata-rata	SD
Kaca atas	3,40	3,30	3,50	3,40	0,10	2,82	2,90	2,71	2,81	0,10
50 g	3,60	3,70	3,5	3,61	0,09	3,15	3,05	3,23	3,14	0,09

100 g	3,70	3,90	3,80	3,80	0,10	3,84	3,82	3,62	3,76	0,12
150 g	3,95	4,10	4	4,01	0,08	3,91	3,94	3,86	3,90	0,04

Beban	Hari ke 14					Hari ke 21				
	1	2	3	Rata-rata	SD	1	2	3	Rata-rata	SD
Kaca atas	2,32	2,51	2,1	2,32	0,20	2,4	2,34	2,51	2,42	0,09
50 g	2,64	2,83	2,5	2,65	0,18	2,78	2,69	2,87	2,78	0,09
100 g	3,21	3,33	3	3,17	0,19	3,04	2,98	3,2	3,07	0,11
150 g	3,46	3,62	3,3	3,46	0,16	3,3	3,24	3,33	3,29	0,05

Daya sebar formula 2 (5%) hari ke 1 – 21

Beban	Hari ke 1					Hari ke 7				
	1	2	3	Rata-rata	SD	1	2	3	Rata-rata	SD
Kaca atas	3,71	3,16	3,5	3,47	0,28	2,60	2,54	2,71	2,62	0,09
50 g	3,80	3,74	3,7	3,75	0,05	3,33	3,25	3,42	3,33	0,09
100 g	4,00	3,96	3,8	3,91	0,13	3,65	3,62	3,80	3,69	0,10
150 g	4,30	4,43	4,20	4,31	0,12	3,98	3,87	4,02	3,96	0,08

Beban	Hari ke 14					Hari ke 21				
	1	2	3	Rata-rata	SD	1	2	3	Rata-rata	SD
Kaca atas	3,02	2,87	3	2,95	0,08	2,35	2,56	2,4	2,44	0,11
50 g	3,63	3,14	3,3	3,37	0,25	2,53	2,8	2,63	2,65	0,14
100 g	3,78	3,51	3,6	3,62	0,14	2,96	3,13	2,97	3,02	0,10
150 g	3,85	3,72	3,8	3,79	0,07	3,35	3,4	3,36	3,37	0,03

Daya sebar formula 3 (10%) hari ke 1 – 21

Beban	Hari ke 1					Hari ke 7				
	1	2	3	Rata-rata	SD	1	2	3	Rata-rata	SD
Kaca atas	3,12	3,06	3,20	3,13	0,06	2,65	2,78	2,53	2,65	0,13
50 g	3,40	3,52	3,5	3,46	0,05	3,15	3,21	3,31	3,22	0,08
100 g	3,48	3,76	3,7	3,66	0,13	3,50	3,47	3,73	3,57	0,14
150 g	3,9	4,07	4,00	3,99	0,07	3,80	3,63	3,86	3,76	0,12

Beban	Hari ke 14					Hari ke 21				
	1	2	3	Rata-rata	SD	1	2	3	Rata-rata	SD
Kaca atas	2,80	2,63	2,7	2,72	0,09	2,43	2,6	2,52	2,52	0,09
50 g	3,10	3,08	3,2	3,12	0,06	2,70	2,82	2,74	2,75	0,06
100 g	3,25	3,12	3,3	3,21	0,08	2,98	3	2,93	2,97	0,04
150 g	3,48	3,33	3,4	3,41	0,08	3,3	3,28	3,14	3,24	0,09

Daya sebar formula 4 (15%) hari ke 1 – 21

Beban	Hari ke 1					Hari ke 7				
	1	2	3	Rata-rata	SD	1	2	3	Rata-rata	SD
Kaca atas	3,50	3,30	3,1	3,31	0,18	2,93	2,80	2,96	2,90	0,09
50 g	3,85	3,60	3,4	3,62	0,22	3,43	3,24	3,31	3,33	0,10
100 g	3,90	3,67	3,50	3,69	0,20	3,73	3,55	3,50	3,59	0,12
150 g	3,94	3,70	4,20	3,95	0,25	3,90	3,87	3,83	3,87	0,04

Beban	Hari ke 14					Hari ke 21				
	1	2	3	Rata-rata	SD	1	2	3	Rata-rata	SD
Kaca atas	2,35	2,26	2,5	2,38	0,14	2,5	2,32	2,26	2,36	0,12
50 g	2,88	2,71	3	2,85	0,13	2,73	2,58	2,61	2,64	0,08
100 g	3,35	3,52	3,9	3,58	0,27	2,93	2,83	2,96	2,91	0,07
150 g	3,55	3,73	3,9	3,73	0,18	3,1	3,15	3,25	3,17	0,08

Daya lekat hari ke 1 – 21

Formula	Waktu lekat (detik)									
	Hari ke 1					Hari ke 7				
	1	2	3	Rata-rata	SD	1	2	3	Rata-rata	SD
F1	2,56	2,36	2,73	2,55	0,16	2,31	2,8	2,24	2,44	0,19
F2	2,72	2,98	2,52	2,74	0,23	2,96	2,50	2,71	2,72	0,23
F3	2,84	2,90	2,63	2,79	0,14	2,59	2,81	2,98	2,79	0,20
F4	2,87	2,90	2,70	2,82	0,11	2,92	2,72	2,81	2,82	0,10

Formula	Waktu lekat (detik)									
	Hari ke 14					Hari ke 21				
	1	2	3	Rata-rata	SD	1	2	3	Rata-rata	SD
F1	2,26	2,41	2,52	2,40	0,28	2,55	2,30	2,25	2,37	0,13
F2	2,33	2,78	2,93	2,68	0,31	2,52	2,43	2,71	2,55	0,14
F3	2,63	2,56	2,91	2,70	0,19	2,64	2,59	2,86	2,70	0,14
F4	2,95	2,56	2,78	2,76	0,18	2,72	2,5	2,89	2,72	0,20

Satbilitas *cycling test*

Formula	Viskositas (dPas)									
	Sebelum					Sesudah				
	1	2	3	Rata-rata	SD	1	2	3	Rata-rata	SD
F1	110	100	120	110,00	10,00	110	100	110	106,67	5,77

F2	120	130	130	126,67	5,77	110	120	120	116,67	5,77
F3	170	160	180	170	10,00	150	160	150	153,33	5,77
F4	190	180	200	190,00	10,00	180	190	180	183,33	5,77

Formula	pH									
	Sebelum					Sesudah				
	1	2	3	Rata-rata	SD	1	2	3	Rata-rata	SD
F1	5,14	5,21	5,56	5,30	0,23	5,85	5,9	6,00	5,92	0,08
F2	5,23	5,51	5,19	5,31	0,17	5,77	5,68	5,58	5,68	0,10
F3	5,31	5,47	5,23	5,34	0,12	5,83	5,69	5,63	5,72	0,10
F4	5,35	5,57	5,63	5,52	0,15	5,88	5,72	5,67	5,76	0,11

Lampiran 8. Uji luka sayat**Kontrol Negatif**

N ^o	Waktu Penyembuhan														Lama Hari Penyembuhan
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
1	4	4	3	3	3	3	3	2	2	2	2	1	-	-	12
2	4	4	3	3	3	3	3	3	2	2	1	-	-	-	11
3	4	4	3	3	3	3	2	2	2	2	2	2	1	-	13
4	4	4	3	3	3	3	3	2	2	2	1	-	-	-	11
5	4	4	3	3	3	3	2	2	2	2	2	1	-	-	12
Jumlah															59
Rata-rata															11,8

Konsentrasi 5%

No	Waktu Penyembuhan														Lama Hari Penyembuhan
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
1	4	4	3	3	2	2	2	2	1	-	-	-	-	-	9
2	4	4	3	3	3	2	2	2	2	1	-	-	-	-	10
3	4	4	3	3	2	2	2	2	2	1	-	-	-	-	10
4	4	4	3	3	2	2	2	2	1	-	-	-	-	-	9
5	4	4	3	3	3	2	2	1	-	-	-	-	-	-	8
Jumlah															46
Rata-rata															9,2

Konsentrasi 10%

No	Waktu Penyembuhan														Lama Hari Penyembuhan
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
1	4	4	3	3	2	2	1	-	-	-	-	-	-	-	7
2	4	4	3	3	3	2	2	1	-	-	-	-	-	-	8
3	4	4	3	3	3	2	2	2	1	-	-	-	-	-	9
4	4	4	3	3	3	2	2	1	-	-	-	-	-	-	8
5	4	4	3	3	3	2	2	1	-	-	-	-	-	-	8
Jumlah															40
Rata-rata															8

Konsentrasi 15%

No	Waktu Penyembuhan														Lama Hari Penyembuhan
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
1	4	3	2	2	2	2	2	1	-	-	-	-	-	-	8
2	4	3	2	2	2	1	-	-	-	-	-	-	-	-	6
3	4	3	2	2	2	2	2	1	-	-	-	-	-	-	8

4	4	4	3	3	2	2	2	2	2	1	-	-	-	-	-	9
5	4	4	3	3	2	2	2	2	1	-	-	-	-	-	-	8
Jumlah																39
Rata-rata																7,8

Kontrol Positif

No	Waktu Penyembuhan														Lama Hari Penyembuhan	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14		
1	4	4	3	3	2	2	2	2	1	-	-	-	-	-	-	8
2	4	4	3	3	3	2	2	2	2	1	-	-	-	-	-	9
3	4	3	3	3	2	2	2	2	2	2	1	-	-	-	-	10
4	4	3	3	3	2	2	2	2	2	1	-	-	-	-	-	9
5	4	4	3	3	3	2	2	2	2	2	1	-	-	-	-	10
Jumlah																46
Rata-rata																9,2

Lampiran 9. Uji statistik mutu fisik krim minyak biji bunga matahari (*Helianthus annuus* L.)

Statistik *One Way Anova* viskositas hari ke-1

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	Df	Sig.
viskositas	,211	12	,147	,917	12	,261

a. Lilliefors Significance Correction

Nilai sig 0,261 (>0,05) data terdistribusi normal

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
viskositas	Based on Mean	,143	3	8	,931
	Based on Median	,250	3	8	,859
	Based on Median and with adjusted df	,250	3	8,000	,859
	Based on trimmed mean	,150	3	8	,927

Nilai sig > 0,05 data terdistribusi homogen

ANOVA

viskositas

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	12425,000	3	4141,667	49,700	,000
Within Groups	666,667	8	83,333		
Total	13091,667	11			

Nilai sig 0,000 < 0,05 yang berarti terdapat perbedaan yang signifikan dari masing-masing formula

viskositas

Tukey HSD^a

formula	N	Subset for alpha = 0.05	
		1	2
F1	3	110,00	
F2	3	126,67	
F3	3		170,00
F4	3		190,00
Sig.		,193	,104

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

Statistik *One Way Anova* viskositas hari ke – 21

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	Df	Sig.
viskositas_21	,213	12	,139	,875	12	,076

a. Lilliefors Significance Correction

Nilai sig 0,076 (>0,05) data terdistribusi normal

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
viskositas_21	Based on Mean	,333	3	8	,802
	Based on Median	,250	3	8	,859
	Based on Median and with adjusted df	,250	3	8,000	,859
	Based on trimmed mean	,333	3	8	,802

Nilai sig > 0,05 data terdistribusi homogen

ANOVA

viskositas_21

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	10291,667	3	3430,556	68,611	,000
Within Groups	400,000	8	50,000		
Total	10691,667	11			

Nilai sig 0,000 < 0,05 yang berarti terdapat perbedaan yang signifikan dari masing-masing formula

viskositas_21

Tukey HSD^a

formula	N	Subset for alpha = 0.05		
		1	2	3
F1	3	103,33		
F2	3	113,33		
F3	3		150,00	
F4	3			176,67
Sig.		,369	1,000	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

SPSS Paired T Test viskositas hari ke 1 dan 21

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	Df	Sig.
Viskositas	,211	12	,147	,917	12	,261
viskositas_21	,213	12	,139	,875	12	,076

a. Lilliefors Significance Correction

Data tersitribusi normal

Paired Samples Statistics

		Mean	N	Std. Deviation	Std. Error Mean
Pair 1	viskositas	149,17	12	34,499	9,959
	viskositas_21	135,83	12	31,176	9,000

Paired Samples Correlations

		N	Correlation	Sig.
Pair 1	viskositas & viskositas_21	12	,926	,000

Paired Samples Test

		Paired Differences						
		Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference	t	df	Sig. (2-tailed)
Pair 1	viskositas - viskositas_21	13,34	12,323	3,582	6,172 20,508	3,725	11	,002

				Lower	Upper			
Pair 1	viskositas - viskositas_21	13,333	13,027	3,761	5,057	21,610	3,546	11,005

Nilai sig 0,005 ($>0,05$) sehingga terdapat perbedaan yang signifikan pada hari pertama dan ke 21 (kurang stabil)

Statistik *One Way Anova* pH hari ke 1

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Ph	,203	12	,187	,906	12	,191

a. Lilliefors Significance Correction

Nilai sig 0,191 ($>0,05$) data terdistribusi normal

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
ph	Based on Mean	,881	3	8	,491
	Based on Median	,104	3	8	,955
	Based on Median and with adjusted df	,104	3	6,137	,955
	Based on trimmed mean	,763	3	8	,546

Nilai sig $> 0,05$ data terdistribusi homogen

ANOVA

	Sum of Squares	Df	Mean Square	F	Sig.
Between Groups	,092	3	,031	1,041	,425
Within Groups	,235	8	,029		
Total	,327	11			

Nilai sig 0,425 $>0,05$ yang berarti tidak terdapat perbedaan yang signifikan antar masing-masing formula

ph

Tukey HSD^a

Formula	N	Subset for alpha = 0.05	
		1	
F1	3	5,3033	
F2	3	5,3100	
F3	3	5,3367	
F4	3	5,5167	
Sig.		,468	

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

Statistik *One Way Anova* pH hari ke 21

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
ph	,138	12	,200	,947	12	,594

*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

Nilai sig 0,594 (>0,05) data terdistribusi normal

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
ph	Based on Mean	1,946	3	8	,201
	Based on Median	,765	3	8	,545
	Based on Median and with adjusted df	,765	3	4,508	,565
	Based on trimmed mean	1,846	3	8	,217

Nilai sig >0,05 data terdistribusi homogen

ANOVA

ph					
	Sum of Squares	Df	Mean Square	F	Sig.
Between Groups	1,981	3	,660	77,530	,000
Within Groups	,068	8	,009		
Total	2,049	11			

Nilai sig 0,000 < 0,05 yang berarti terdapat perbedaan yang signifikan antar masing-masing formula

pH_hari21

Tukey HSD^a

Subset for alpha = 0.05					
Formula	N	1	2	3	4
F4	3	4,7000			
F3	3		5,0333		
F2	3			5,3567	
F1	3				5,8000
Sig.		1,000	1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

SPSS Paired T Test pH ke 1 dan 21

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Viskositas	,195	12	,200	,869	12	,063
viskositas_hari21	,170	12	,200	,922	12	,299

*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

Data terdistribusi normal

Paired Samples Statistics

		Mean	N	Std. Deviation	Std. Error Mean
Pair 1	Ph	5,3667	12	,17249	,04979
	ph_hari21	5,2225	12	,43160	,12459

Paired Samples Correlations

Pair	N	Correlation	Sig.
Pair 1 ph & ph_hari21	12	-,530	,076

Paired Samples Test

Pair	Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference		t	df	Sig. (2-tailed)
				Lower	Upper			
Pair 1 ph - ph_hari21	,14417	,54305	,15676	-,20087	,48920	,920	11	,377

Nilai sig 0,377 (>0,05) sehingga tidak terdapat perbedaan yang signifikan pada hari pertama dan ke 21 (stabil)

Statistik One Way Anova daya sebar hari ke 1

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	Df	Sig.
dayasebar	,131	12	,200	,981	12	,986

*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

Nilai sig 0,986 (>0,05) data terdistribusi normal

Test of Homogeneity of Variances

	Levene Statistic	df1	df2	Sig.
dayasebar Based on Mean	1,266	3	8	,349
Based on Median	1,139	3	8	,390
Based on Median and with adjusted df	1,139	3	3,986	,435
Based on trimmed mean	1,260	3	8	,351

Nilai sig >0,05 data terdistribusi homogen

ANOVA

dayasebar	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	,246	3	,082	3,686	,062
Within Groups	,178	8	,022		
Total	,424	11			

Nilai sig 0,062 > 0,05 yang berarti tidak terdapat perbedaan yang signifikan antara masing-masing formula

dayasebar

Tukey HSD^a

Formula	N	Subset for alpha = 0.05	
		1	
F4	3		3,9467
F3	3		3,9900
F1	3		4,0167
F2	3		4,3100
Sig.			,068

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

Statistik One Way Anova daya sebar hari ke 21

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
dayasebar_21	,141	12	,200	,939	12	,491

*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

Nilai sig 0,320 > 0,05 data terdistribusi normal

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
dayasebar_21	Based on Mean	2,003	3	8	,192
	Based on Median	,375	3	8	,773
	Based on Median and with adjusted df	,375	3	4,562	,776
	Based on trimmed mean	1,801	3	8	,225

Nilai sig > 0,05 data terdistribusi homogen

ANOVA

dayasebar_21					
	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	,066	3	,022	5,405	,025
Within Groups	,032	8	,004		
Total	,098	11			

Nilai sig 0,025 < 0,05 yang berarti terdapat perbedaan yang signifikan antara masing-masing formula

dayasebar_21

Tukey HSD^a

Formula	N	Subset for alpha = 0.05	
		1	2
F4	3	3,1667	
F3	3	3,2400	3,2400
F1	3	3,2900	3,2900
F2	3		3,3700
Sig.		,161	,135

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

SPSS Paired T Test daya sebar hari ke 1 dan 21

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Dayasebar	,131	12	,200	,981	12	,986
dayasebar_21	,141	12	,200	,939	12	,491

*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

Data terdistribusi normal

Paired Samples Statistics

		Mean	N	Std. Deviation	Std. Error Mean
Pair 1	dayasebar	4,0658	12	,19630	,05667
	dayasebar_21	3,2667	12	,09452	,02728

Paired Samples Correlations

		N	Correlation	Sig.
Pair 1	dayasebar & dayasebar_21	12	,666	,018

Paired Samples Test

		Paired Differences				t	df	Sig. (2-tailed)
		Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference Lower Upper			
Pair 1	dayasebar - dayasebar_21	,79917	,15084	,04354	,70333 ,89501	18,353	11	,000

Nilai sig 0,000 < 0,05 yang berarti terdapat perbedaan yang signifikan antara hari 1 dan 21 (tidak stabil)

Statistik *One Way Anova* daya lekat hari ke 1

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	Df	Sig.
dayalekat	,149	12	,200	,956	12	,725

*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

Nilai sig 0,725 (>0,05) data terdistribusi normal

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
dayalekat	Based on Mean	,439	3	8	,731
	Based on Median	,345	3	8	,794
	Based on Median and with adjusted df	,345	3	7,345	,794
	Based on trimmed mean	,435	3	8	,734

Nilai sig >0,05 data terdistribusi homogen

ANOVA

dayalekat

	Sum of Squares	Df	Mean Square	F	Sig.
Between Groups	,134	3	,045	1,501	,287
Within Groups	,238	8	,030		
Total	,373	11			

Nilai sig 0,287 > 0,05 yang berarti tidak terdapat perbedaan yang signifikan antar masing-masing formula

dayalekat

Tukey HSD^a

formula	N	Subset for alpha = 0.05	
		1	
F1	3	2,5500	
F2	3	2,7400	
F3	3	2,7900	
F4	3	2,8233	
Sig.		,286	

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

Statistik One Way Anova daya lekat hari ke 21

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
dayalekat_21	,094	12	,200	,971	12	,923

*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

Nilai sig 0,923 (>0,05) data terdistribusi normal

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
dayalekat_21	Based on Mean	,113	3	8	,950
	Based on Median	,075	3	8	,972
	Based on Median and with adjusted df	,075	3	7,613	,972
	Based on trimmed mean	,109	3	8	,952

Nilai sig >0,05 data terdistribusi homogen

ANOVA

dayalekat_21

	Sum of Squares	Df	Mean Square	F	Sig.
Between Groups	,225	3	,075	2,855	,105
Within Groups	,210	8	,026		
Total	,435	11			

Nilai sig 0,105 (<0,05) yang berarti tidak terdapat perbedaan yang signifikan antar masing-masing formula

dayalekat_21

Tukey HSD^a

formula	N	Subset for alpha = 0.05	
		1	
F1	3	2,3667	
F2	3	2,5533	
F3	3	2,6967	
F4	3	2,7033	
Sig.		,127	

Means for groups in homogeneous subsets are displayed.
 a. Uses Harmonic Mean Sample Size = 3,000.

SPSS Paired T Test daya lekat hari ke 1 dan 21

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Dayalekat	,149	12	,200	,956	12	,725
dayalekat_21	,094	12	,200	,971	12	,923

*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

Data terdistribusi normal

Paired Samples Statistics

		Mean	N	Std. Deviation	Std. Error Mean
Pair 1	dayalekat	2,7258	12	,18407	,05314
	dayalekat_21	2,5800	12	,19895	,05743

Paired Samples Correlations

		N	Correlation	Sig.
Pair 1	dayalekat & dayalekat_21	12	,053	,869

Paired Samples Test

		Paired Differences							
		Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference		t	df	Sig. (2-tailed)
					Lower	Upper			
Pair 1	dayalekat - dayalekat_21	,14583	,26373	,07613	-,02173	,31340	1,916	11	,082

Nilai sig 0,082 (>0,05) sehingga tidak terdapat perbedaan yang signifikan pada hari pertama dan ke 21 (stabil)

SPSS Paired T Test viskositas sebelum dan sesudah cycling test

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	Df	Sig.
sebelum	,211	12	,147	,917	12	,261
sesudah	,233	12	,072	,888	12	,110

a. Lilliefors Significance Correction

Data terdistribusi normal

Paired Samples Statistics

		Mean	N	Std. Deviation	Std. Error Mean
Pair 1	sebelum	149,17	12	34,499	9,959
	sesudah	140,00	12	32,193	9,293

Paired Samples Correlations

Pair		N	Correlation	Sig.
Pair 1	sebelum & sesudah	12	,950	,000

Paired Samples Test

Pair		Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference		t	df	Sig. (2-tailed)
					Lower	Upper			
Pair 1	sebelum - sesudah	9,167	10,836	3,128	2,282	16,052	2,930	11	,014

Nilai sig 0,014 ($>0,05$) sehingga terdapat perbedaan yang signifikan sebelum dan sesudah (kurang stabil)

SPSS Paired T Test ph sebelum dan sesudah uji cycling test

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
ph_sebelum	,203	12	,187	,906	12	,191
ph_sesudah	,145	12	,200	,966	12	,859

*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

Data terdistribusi normal

Paired Samples Statistics

Pair		Mean	N	Std. Deviation	Std. Error Mean
Pair 1	ph_sebelum	5,3667	12	,17249	,04979
	ph_sesudah	5,7667	12	,12594	,03636

Paired Samples Correlations

Pair		N	Correlation	Sig.
Pair 1	ph_sebelum & ph_sesudah	12	-,018	,956

Paired Samples Test

Pair		Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference		t	df	Sig. (2-tailed)
					Lower	Upper			
Pair 1	ph_sebelum - ph_sesudah	-,40000	,21536	,06217	-,53684	-,26316	6,434	11	,000

Nilai sig 0,000 $< 0,05$ yang berarti terdapat perbedaan yang signifikan antara sebelum dan sesudah (kurang stabil)

Lampiran 10. Uji statistik aktivitas penyembuhan luka sayat dengan *One Way Anova*

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
lama_penyembuhan	,188	25	,023	,936	25	,118

a. Lilliefors Significance Correction

Nilai sig 0,118 (>0,05) data terdistribusi normal

Test of Homogeneity of Variances

		Levene	df1	df2	Sig.
		Statistic			
lama_penyembuhan	Based on Mean	,260	4	20	,900
	Based on Median	,100	4	20	,981
	Based on Median and with adjusted df	,100	4	16,000	,981
	Based on trimmed mean	,243	4	20	,911

Nilai >0,05 data terdistribusi normal

ANOVA

lama_penyembuhan

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	50,800	4	12,700	16,711	,000
Within Groups	15,200	20	,760		
Total	66,000	24			

Nilai sig 0,000 < 0,05 yang berarti terdapat perbedaan yang signifikan

lama_penyembuhan

Tukey HSD^a

Perlakuan	N	Subset for alpha = 0.05	
		1	2
konsentrasi 15%	5	7,80	
konsentrasi 10%	5	8,00	
kontrol positif	5	9,20	
konsentrasi 5%	5	9,20	
kontrol negatif	5		11,80
Sig.		,121	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5,000.