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Lampiran 1. Hasil daya sebar hari 1

Formula	Beban	Hasil replikasi	Rata-rata	SD
K (-)	50	5,35	5,31	0,04
		5,3		
		5,28		
	100	5,65	5,58	0,08
		5,58		
		5,5		
	150	5,9	5,81	0,08
		5,78		
		5,75		

Formula	Beban	Hasil repli	Rata-rata	SD
FI (0,5%)	50	5,25	5,19	0,06
		5,18		
		5,13		
	100	5,45	5,37	0,10
		5,4		
		5,25		
	150	5,63	5,54	0,13
		5,6		
		5,4		

Formula	Beban	Hasil repli	Rata-rata	SD
FII (1,0%)	50	5,33	5,29	0,04
		5,28		
		5,25		
	100	5,48	5,45	0,03
		5,45		
		5,43		
	150	5,63	5,62	0,02
		5,63		
		5,6		

Lampiran 2. Hasil daya sebar hari 21

Formula	Beban	Hasil repli	Rata-rata	SD
K (-)	50	5,15	5,13	0,04
		5,15		
		5,08		
	100	5,3	5,31	0,02
		5,3		
		5,33		
	150	5,55	5,54	0,01
		5,55		
		5,53		

Formula	Beban	Hasil repli	Rata-rata	SD
FI (0,5%)	50	5,23	5,12	0,12
		5,13		
		5		
	100	5,4	5,30	0,10
		5,3		
		5,2		
	150	5,6	5,51	0,10
		5,53		
		5,4		

Formula	Beban	Hasil repli	Rata-rata	SD
FII (1,0%)	50	5,15	5,17	0,02
		5,18		
		5,18		
	100	5,3	5,32	0,02
		5,33		
		5,33		
	150	5,53	5,52	0,02
		5,53		
		5,5		

Lampiran 3. Data uji statistik daya sebar formulasi krim isomiristisin

NPar Tests

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
Daya_sebar	18	5,3933	,18946	5,12	5,81

One-Sample Kolmogorov-Smirnov Test

	Daya_sebar
N	18
Mean	5,3933
Normal Parameters ^{a,b}	Std. ,18946
	Deviation
Most Extreme	Absolute ,151
Differences	Positive ,151
	Negative -,120
Kolmogorov-Smirnov Z	,639
Asymp. Sig. (2-tailed)	,809

a. Test distribution is Normal.

b. Calculated from data.

Univariate Analysis of Variance

Descriptive Statistics

Dependent Variable: Daya_sebar

Formula	Hari	Mean	Std. Deviation	N
Kontrol negatif	Hari ke-1	5,5667	,25027	3
	Hari ke-21	5,3267	,20551	3
	Total	5,4467	,24337	6
FII (0,5%)	Hari ke-1	5,3667	,17502	3
	Hari ke-21	5,3100	,19519	3
	Total	5,3383	,16869	6
FIII (1,0%)	Hari ke-1	5,4533	,16503	3
	Hari ke-21	5,3367	,17559	3
	Total	5,3950	,16526	6
Total	Hari ke-1	5,4622	,19409	9
	Hari ke-21	5,3244	,16712	9
	Total	5,3933	,18946	18

Levene's Test of Equality of Error Variances^a

Dependent Variable: Daya_sebar

F	df1	df2	Sig.
,123	5	12	,984

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Design: Intercept + Formula + Hari + Formula

* Hari

Post Hoc Tests

Multiple Comparisons

Dependent Variable: Daya_sebar

Tukey HSD

(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Kontrol negatif	FII (0,5%)	,1083	,11345	,618	-,1943	,4110
	FIII (1,0%)	,0517	,11345	,893	-,2510	,3543
FII (0,5%)	Kontrol negatif	-,1083	,11345	,618	-,4110	,1943
	FIII (1,0%)	-,0567	,11345	,873	-,3593	,2460
FIII (1,0%)	Kontrol negatif	-,0517	,11345	,893	-,3543	,2510
	FII (0,5%)	,0567	,11345	,873	-,2460	,3593

Based on observed means.

The error term is Mean Square(Error) = ,039.

Homogeneous Subsets

Daya_sebar

Tukey HSD^{a,b}

Formula	N	Subset
		1
FII (0,5%)	6	5,3383
FIII (1,0%)	6	5,3950
Kontrol negatif	6	5,4467
Sig.		,618

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = ,039.

a. Uses Harmonic Mean Sample Size = 6,000.

b. Alpha = ,05.

Lampiran 4. Uji daya lekat hari 1

Replikasi	K (-)	F1	F2
1	2,38	2,88	2,73
2	2,43	2,81	2,67
3	2,35	2,9	2,78
Rata-rata	2,4	2,9	2,7
SD	0,04	0,05	0,06

Lampiran 5. Uji daya lekat hari 21

Replikasi	K (-)	F1	F2
1	2,4	2,87	2,97
2	2,42	2,63	2,76
3	2,30	2,77	2,84
Rata-rata	2,4	2,8	2,9
SD	0,06	0,12	0,11

Lampiran 6. Data uji statistik daya lekat formulasi krim isomiristisin

NPar Tests

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
Daya_lekat	18	2,6606	,22039	2,30	2,97

One-Sample Kolmogorov-Smirnov Test

	Daya_lekat
N	18
Mean	2,6606
Normal Parameters ^{a,b} Std.	,22039
Deviation	
Absolute	,186
Most Extreme Positive	,186
Differences Negative	-,179
Kolmogorov-Smirnov Z	,787
Asymp. Sig. (2-tailed)	,565

a. distribution is Normal.

b. Calculated from data.

Univariate Analysis of Variance

Descriptive Statistics

Dependent Variable: Daya_lekat

Formula	Hari	Mean	Std. Deviation	N
Kontrol negatif	Hari ke-1	2,3867	,04041	3
	Hari ke-21	2,3733	,06429	3
	Total	2,3800	,04858	6
FII (0,5%)	Hari ke-1	2,8633	,04726	3
	Hari ke-21	2,7567	,12055	3
	Total	2,8100	,10060	6
FIII (1,0%)	Hari ke-1	2,7267	,05508	3
	Hari ke-21	2,8567	,10599	3
	Total	2,7917	,10381	6
Total	Hari ke-1	2,6589	,21659	9
	Hari ke-21	2,6622	,23726	9
	Total	2,6606	,22039	18

Levene's Test of Equality of Error

Variances^a

Dependent Variable: Daya_lekat

F	df1	df2	Sig.
1,090	5	12	,414

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Design: Intercept + Formula + Hari + Formula * Hari

Post Hoc Tests**Multiple Comparisons**

Dependent Variable: Daya_lekat

Tukey HSD

(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Kontrol negatif	FII (0,5%)	-,4300*	,04522	,000	-,5506	-,3094
	FIII (1,0%)	-,4117*	,04522	,000	-,5323	-,2910
	Kontrol	,4300*	,04522	,000	,3094	,5506
FII (0,5%)	negatif					
	FIII (1,0%)	,0183	,04522	,914	-,1023	,1390
	Kontrol	,4117*	,04522	,000	,2910	,5323
FIII (1,0%)	negatif					
	FII (0,5%)	-,0183	,04522	,914	-,1390	,1023

Based on observed means.

The error term is Mean Square(Error) = ,006.

The mean difference is significant at the ,05 level.

Homogeneous Subsets

Daya_lekat

Tukey HSD^{a,b}

Formula	N	Subset	
		1	2
Kontrol	6	2,3800	
negatif			
FIII	6		2,7917
(1,0%)			
FII	6		2,8100
(0,5%)			
Sig.		1,000	,914

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = ,006.

a. Uses Harmonic Mean Sample Size = 6,000.

b. Alpha = ,05.

Lampiran 7. Hasil uji viskositas hari 1

Replikasi	K (-)	F1	F2
1	270	285	285
2	280	300	290
3	270	290	280
Rata-rata	273,3	291,7	285,0
SD	5,8	7,6	5,0

Lampiran 8. Hasil uji viskositas hari 21

Replikasi	K (-)	F1	F2
1	290	290	290
2	275	300	300
3	275	300	285
Rata-rata	280,0	296,7	291,7
SD	8,7	5,8	7,6

Lampiran 9. Data uji statistik viskositas formulasi krim isomiristisin

NPar Tests

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
Viskositas	18	286,3889	9,97136	270,00	300,00

One-Sample Kolmogorov-Smirnov Test

	Viskositas
N	18
Normal Parameters ^{a,b}	
Mean	286,3889
Std. Deviation	9,97136
Most Extreme Differences	
Absolute	,141
Positive	,136
Negative	-,141
Kolmogorov-Smirnov Z	,600
Asymp. Sig. (2-tailed)	,865

a. Test distribution is Normal.

b. Calculated from data.

Univariate Analysis of Variance

Descriptive Statistics

Dependent Variable: Viskositas

Formula	Hari	Mean	Std. Deviation	N
Kontrol negatif	Hari ke-1	273,3333	5,77350	3
	Hari ke-21	280,0000	8,66025	3
	Total	276,6667	7,52773	6
FII (0,5%)	Hari ke-1	291,6667	7,63763	3
	Hari ke-21	296,6667	5,77350	3
	Total	294,1667	6,64580	6
FIII (1,0%)	Hari ke-1	285,0000	5,00000	3
	Hari ke-21	291,6667	7,63763	3
	Total	288,3333	6,83130	6
Total	Hari ke-1	283,3333	9,68246	9
	Hari ke-21	289,4444	9,82486	9
	Total	286,3889	9,97136	18

Levene's Test of Equality of Error

Variances^a

Dependent Variable: Viskositas

F	df1	df2	Sig.
,508	5	12	,765

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Design: Intercept + Formula + Hari +
Formula * Hari

Post Hoc Tests**Multiple Comparisons**

Dependent Variable: Viskositas

Tukey HSD

(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Kontrol negatif	FII (0,5%)	-17,5000*	3,96746	,002	-28,0846	-6,9154
	FIII (1,0%)	-11,6667*	3,96746	,031	-22,2513	-1,0820
FII (0,5%)	Kontrol negatif	17,5000*	3,96746	,002	6,9154	28,0846
	FIII (1,0%)	5,8333	3,96746	,339	-4,7513	16,4180
FIII (1,0%)	Kontrol negatif	11,6667*	3,96746	,031	1,0820	22,2513
	FII (0,5%)	-5,8333	3,96746	,339	-16,4180	4,7513

Based on observed means.

The error term is Mean Square(Error) = 47,222.

*. The mean difference is significant at the ,05 level.

Homogeneous Subsets**Viskositas**Tukey HSD^{a,b}

Formula	N	Subset	
		1	2
Kontrol negatif	6	276,6667	
FIII (1,0%)	6		288,3333
FII (0,5%)	6		294,1667
Sig.		1,000	,339

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 47,222.

a. Uses Harmonic Mean Sample Size = 6,000.

b. Alpha = ,05.

Lampiran 10. Hasil uji pH hari 1

Replikasi	K (-)	F1	F2
1	6,97	6,93	6,94
2	6,95	6,98	6,97
3	6,9	6,9	6,95
Rata-rata	6,93	6,94	6,95
SD	0,04	0,04	0,02

Lampiran 11. Hasil uji pH hari 21

Replikasi	K (-)	F1	F2
1	6,8	6,85	6,9
2	6,77	6,88	6,95
3	6,72	6,9	6,92
Rata-rata	6,76	6,88	6,92
SD	0,04	0,03	0,03

Lampiran 12. Data uji statistik pH formulasi krim isomiristisin
NPar Tests

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
pH	18	6,8989	,07226	6,72	6,98

One-Sample Kolmogorov-Smirnov Test

		pH
N		18
Normal Parameters ^{a,b}	Mean	6,8989
	Std.	,07226
	Deviation	
Most Extreme Differences	Absolute	,228
	Positive	,131
	Negative	-,228
Kolmogorov-Smirnov Z		,969
Asymp. Sig. (2-tailed)		,305

a. Test distribution is Normal.

b. Calculated from data.

Univariate Analysis of Variance

Descriptive Statistics

Dependent Variable: pH

Formula	Hari	Mean	Std. Deviation	N
Kontrol negatif	Hari ke-1	6,9400	,03606	3
	Hari ke-21	6,7633	,04041	3
	Total	6,8517	,10265	6
FII (0,5%)	Hari ke-1	6,9367	,04041	3
	Hari ke-21	6,8767	,02517	3
	Total	6,9067	,04457	6
FIII (1,0%)	Hari ke-1	6,9533	,01528	3
	Hari ke-21	6,9233	,02517	3
	Total	6,9383	,02483	6
Total	Hari ke-1	6,9433	,02915	9
	Hari ke-21	6,8544	,07618	9
	Total	6,8989	,07226	18

Levene's Test of Equality of Error

Variances^a

Dependent Variable: pH

F	df1	df2	Sig.
,715	5	12	,624

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Design: Intercept + Formula + Hari +
Formula * Hari

Post Hoc Tests**Multiple Comparisons**

Dependent Variable: pH

Tukey HSD

(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Kontrol negatif	FII (0,5%)	-,0550*	,01836	,028	-,1040	-,0060
	FIII (1,0%)	-,0867*	,01836	,001	-,1356	-,0377
	Kontrol	,0550*	,01836	,028	,0060	,1040
FII (0,5%)	negatif					
	FIII (1,0%)	-,0317	,01836	,236	-,0806	,0173
	Kontrol	,0867*	,01836	,001	,0377	,1356
FIII (1,0%)	negatif					
	FII (0,5%)	,0317	,01836	,236	-,0173	,0806

Based on observed means.

The error term is Mean Square(Error) = ,001.

*. The mean difference is significant at the ,05 level.

Homogeneous Subsets**pH**Tukey HSD^{a,b}

Formula	N	Subset	
		1	2
Kontrol negatif	6	6,8517	
FII (0,5%)	6		6,9067
FIII (1,0%)	6		6,9383
Sig.		1,000	,236

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = ,001.

a. Uses Harmonic Mean Sample Size = 6,000.

b. Alpha = ,05.

Lampiran 13. Hasil uji stabilitas pH (sebelum cycling test)

Replikasi	K (-)	F1	F2
1	6,97	6,93	6,94
2	6,95	6,98	6,97
3	6,9	6,9	6,95
Rata-rata	6,94	6,94	6,95
SD	0,04	0,04	0,02

Lampiran 14. Hasil uji stabilitas pH (setelah cycling test)

Replikasi	K (-)	F1	F2
1	6,94	6,9	6,86
2	6,97	6,82	6,93
3	6,88	6,85	6,89
Rata-rata	6,93	6,86	6,89
SD	0,05	0,04	0,04

Lampiran 15. Data uji statistik pH formulasi krim isomiristisin sebelum dan sesudah cycling test

NPar Tests

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
pH	18	6,9183	,04605	6,82	6,98

One-Sample Kolmogorov-Smirnov Test

	pH
N	18
Mean	6,9183
Normal Parameters ^{a,b}	Std. Deviation
	,04605
Absolute	,156
Most Extreme Positive	,099
Differences Negative	-,156
Kolmogorov-Smirnov Z	,660
Asymp. Sig. (2-tailed)	,776

a. Test distribution is Normal.

b. Calculated from data.

Univariate Analysis of Variance

Descriptive Statistics

Dependent Variable: pH

Formula	Waktu_pengamatan	Mean	Std. Deviation	N
Kontrol negatif	Sebelum cycling test	6,9400	,03606	3
	Sesudah cycling test	6,9300	,04583	3
	Total	6,9350	,03728	6
FI (0,5%)	Sebelum cycling test	6,9367	,04041	3
	Sesudah cycling test	6,8567	,04041	3
	Total	6,8967	,05680	6
FIII (1,0%)	Sebelum cycling test	6,9533	,01528	3
	Sesudah cycling test	6,8933	,03512	3
	Total	6,9233	,04082	6
Total	Sebelum cycling test	6,9433	,02915	9
	Sesudah cycling test	6,8933	,04743	9
	Total	6,9183	,04605	18

Levene's Test of Equality of Error Variances^a

Dependent Variable: pH

F	df1	df2	Sig.
,583	5	12	,713

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Design: Intercept + Formula +
Waktu_pengamatan + Formula *
Waktu_pengamatan

Post Hoc Tests**Multiple Comparisons**

Dependent Variable: pH

Tukey HSD

(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Kontrol negatif	FI (0,5%)	,0383	,02126	,210	-,0184	,0950
	FIII (1,0%)	,0117	,02126	,849	-,0450	,0684
	Kontrol	-,0383	,02126	,210	-,0950	,0184
FI (0,5%)	negatif					
	FIII (1,0%)	-,0267	,02126	,446	-,0834	,0300
	Kontrol	-,0117	,02126	,849	-,0684	,0450
FIII (1,0%)	negatif					
	FI (0,5%)	,0267	,02126	,446	-,0300	,0834

Based on observed means.

The error term is Mean Square(Error) = ,001.

Homogeneous Subsets**pH**Tukey HSD^{a,b}

Formula	N	Subset
		1
FI (0,5%)	6	6,8967
FIII (1,0%)	6	6,9233
Kontrol negatif	6	6,9350
Sig.		,210

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = ,001.

a. Uses Harmonic Mean Sample Size = 6,000.

b. Alpha = ,05.

Lampiran 16. Hasil uji stabilitas viskositas (sebelum cycling test)

Replikasi	K (-)	F1	F2
1	310	300	320
2	290	280	300
3	275	270	290
Rata-rata	291,7	283,3	303,3
SD	17,6	15,3	15,3

Lampiran 17. Hasil uji stabilitas viskositas (sesudah cycling test)

Replikasi	K (-)	F1	F2
1	340	325	350
2	325	300	325
3	310	300	350
Rata-rata	325,0	308,3	341,7
SD	15,0	14,4	14,4

Lampiran 18. Data uji statistik viskositas formulasi krim isomiristisin sebelum dan sesudah cycling test

NPar Tests

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
Viskositas	18	308,8889	23,98256	270,00	350,00

One-Sample Kolmogorov-Smirnov Test

	Viskositas
N	18
Mean	308,8889
Normal Parameters ^{a,b} Std.	23,98256
Deviation	
Absolute	,145
Most Extreme Positive	,145
Differences Negative	-,082
Kolmogorov-Smirnov Z	,613
Asymp. Sig. (2-tailed)	,846

a. Test distribution is Normal.

b. Calculated from data.

Univariate Analysis of Variance

Descriptive Statistics

Dependent Variable: Viskositas

Formula	Waktu_pengamatan	Mean	Std. Deviation	N
Kontrol negatif	Sebelum cycling test	291,6667	17,55942	3
	Sesudah cycling test	325,0000	15,00000	3
	Total	308,3333	23,38090	6
FI (0,5%)	Sebelum cycling test	283,3333	15,27525	3
	Sesudah cycling test	308,3333	14,43376	3
	Total	295,8333	19,08315	6
FIII (1,0%)	Sebelum cycling test	303,3333	15,27525	3
	Sesudah cycling test	341,6667	14,43376	3
	Total	322,5000	24,84955	6
Total	Sebelum cycling test	292,7778	16,41476	9
	Sesudah cycling test	325,0000	19,20286	9
	Total	308,8889	23,98256	18

Levene's Test of Equality of Error Variances^a

Dependent Variable: Viskositas

F	df1	df2	Sig.
,029	5	12	,999

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Design: Intercept + Formula +
Waktu_pengamatan + Formula *
Waktu_pengamatan

Post Hoc Tests

Multiple Comparisons

Dependent Variable: Viskositas

Tukey HSD

(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Kontrol negatif	FI (0,5%)	12,5000	8,87151	,367	-11,1680	36,1680
	FIII (1,0%)	-14,1667	8,87151	,284	-37,8346	9,5013
	Kontrol	-12,5000	8,87151	,367	-36,1680	11,1680
FI (0,5%)	negatif					
	FIII (1,0%)	-26,6667*	8,87151	,027	-50,3346	-2,9987
	Kontrol	14,1667	8,87151	,284	-9,5013	37,8346
FIII (1,0%)	negatif					
	FI (0,5%)	26,6667*	8,87151	,027	2,9987	50,3346

Based on observed means.

The error term is Mean Square(Error) = 236,111.

*. The mean difference is significant at the ,05 level.

Homogeneous Subsets

Viskositas

Tukey HSD^{a,b}

Formula	N	Subset	
		1	2
FI (0,5%)	6	295,8333	
Kontrol negatif	6	308,3333	308,3333
FIII (1,0%)	6		322,5000
Sig.		,367	,284

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 236,111.

a. Uses Harmonic Mean Sample Size = 6,000.

b. Alpha = ,05.

Lampiran 19. Perhitungan nilai SPF (Sun Protecting Factor)

Formula	Panjang gelombang	Absorbansi	EE x I	Abs x EE x I
Kontrol positif	290	2,4414	0,015	0,0366
	295	2,3894	0,0817	0,1952
	300	2,5475	0,2874	0,7322
	305	2,4572	0,3287	0,8077
	310	2,4261	0,1864	0,4522
	315	2,3850	0,0839	0,2001
	320	2,2278	0,018	0,0401
			Jumlah	2,4641
			CF	14,20
			SPF	35,00

Formula	Panjang gelombang	Absorbansi	EE x I	Abs x EE x I
Kontrol positif	290	2,4330	0,015	0,0365
	295	2,4159	0,0187	0,1974
	300	2,5252	0,2874	0,7257
	305	2,4878	0,3287	0,8177
	310	2,4326	0,1864	0,4534
	315	2,4008	0,0839	0,2014
	320	2,2431	0,018	0,0404
			Jumlah	2,4726
			CF	14,16
			SPF	35,00

Formula	Panjang gelombang	Absorbansi	EE x I	Abs x EE x I
Kontrol positif	290	2,4533	0,015	0,0368
	295	2,4411	0,0817	0,1994
	300	2,5064	0,2874	0,7203
	305	2,478	0,3287	0,8145
	310	2,5201	0,1864	0,4697
	315	2,399	0,0839	0,2013
	320	2,2371	0,018	0,0403
			Jumlah	2,4824
			CF	14,10
			SPF	35,00

Rata-rata nilai CF

Replikasi	CF
1	14,2
2	14,16
3	14,10
Jumlah	42,46
Rata-rata	14,15

Formula	Panjang gelombang	Absorbansi	EE X I	Abs X EE X I	CF
Kontrol negatif	290	0,0349	0,015	0,0005	14,15
	295	0,0337	0,0817	0,0028	14,15
	300	0,0337	0,2874	0,0097	14,15
	305	0,0339	0,3278	0,0111	14,15
	310	0,032	0,1864	0,0060	14,15
	315	0,0302	0,0839	0,0025	14,15
	320	0,0389	0,018	0,0007	14,15
			Jumlah	0,0333	
			Nilai SPF	0,47	

Formula	Panjang gelombang	Absorbansi	EE X I	Abs X EE X I	CF
Kontrol negatif	290	0,0343	0,015	0,0005	14,15
	295	0,0327	0,0817	0,0027	14,15
	300	0,0324	0,2874	0,0093	14,15
	305	0,0329	0,3278	0,0108	14,15
	310	0,0316	0,1864	0,0059	14,15
	315	0,033	0,0839	0,0028	14,15
	320	0,0378	0,018	0,0007	14,15
			Jumlah	0,0326	
			Nilai SPF	0,46	

Formula	Panjang gelombang	Absorbansi	EE X I	Abs X EE X I	CF
Kontrol negatif	290	0,0377	0,015	0,0006	14,15
	295	0,0371	0,0817	0,0030	14,15
	300	0,0367	0,2874	0,0105	14,15
	305	0,0365	0,3278	0,0120	14,15
	310	0,0359	0,1864	0,0067	14,15
	315	0,034	0,0839	0,0029	14,15
	320	0,0325	0,018	0,0006	14,15
Jumlah				0,0362	
Nilai SPF				0,51	

Rata-rata nilai SPF kontrol negatif

Replikasi	Nilai SPF
1	0,47
2	0,46
3	0,51
Jumlah	1,44
Rata-rata	0,48

Formula	Panjang gelombang	Absorbansi	EE x I	Abs x EE x I	CF
Formula I (0,5%)	290	0,2637	0,015	0,0040	14,15
	295	0,252	0,0817	0,0206	14,15
	300	0,2534	0,2874	0,0728	14,15
	305	0,246	0,3278	0,0806	14,15
	310	0,239	0,1864	0,0445	14,15
	315	0,2295	0,0839	0,0193	14,15
	320	0,2228	0,018	0,0040	14,15
Jumlah				0,2458	
Nilai SPF				3,48	

Formula	Panjang gelombang	Absorbansi	EE x I	Abs x EE x I	CF
Formula I (0,5%)	290	0,261	0,015	0,0039	14,15
	295	0,2588	0,0817	0,0211	14,15
	300	0,259	0,2874	0,0744	14,15
	305	0,2428	0,3278	0,0796	14,15
	310	0,2354	0,1864	0,0439	14,15
	315	0,2257	0,0839	0,0189	14,15
	320	0,2198	0,018	0,0040	14,15
Jumlah				0,2459	
Nilai SPF				3,48	

Formula	Panjang gelombang	Absorbansi	EE X I	Abs X EE X I	CF
Formula I (0,5%)	290	0,2606	0,015	0,0039	14,15
	295	0,2589	0,0817	0,0212	14,15
	300	0,2501	0,2874	0,0719	14,15
	305	0,2427	0,3728	0,0905	14,15
	310	0,2361	0,1864	0,0440	14,15
	315	0,2326	0,0839	0,0195	14,15
	320	0,2205	0,018	0,0040	14,15
				Jumlah	0,2549
				Nilai SPF	3,61

Rata-rata nilai SPF FI (0,5%)

Replikasi	Nilai SPF
1	3,48
2	3,48
3	3,61
Jumlah	10,57
Rata-rata	3,52

Formula	Panjang gelombang	Absorbansi	EE x I	Abs X EE X I	CF
Formula II (1,0%)	290	0,266	0,015	0,0040	14,15
	295	0,2537	0,0817	0,0207	14,15
	300	0,2767	0,2874	0,0795	14,15
	305	0,2613	0,3278	0,0857	14,15
	310	0,2783	0,1864	0,0519	14,15
	315	0,2747	0,0839	0,0230	14,15
	320	0,2521	0,018	0,0045	14,15
				Jumlah	0,2694
				Nilai SPF	3,81

Formula	Panjang gelombang	Absorbansi	EE X I	Abs X EE X I	CF
Formula II (1,0%)	290	0,2607	0,015	0,0039	14,15
	295	0,2578	0,0817	0,0211	14,15
	300	0,2791	0,2874	0,0802	14,15
	305	0,2677	0,3278	0,0878	14,15
	310	0,2789	0,1864	0,0520	14,15
	315	0,2753	0,0839	0,0231	14,15
	320	0,2502	0,018	0,0045	14,15
				Jumlah	0,2725
				Nilai SPF	3,86

Formula	Panjang gelombang	Absorbansi	EE X I	Abs X EE X I	CF
Formula II (1,0%)	290	0,2608	0,015	0,0039	14,15
	295	0,256	0,0817	0,0209	14,15
	300	0,2877	0,2874	0,0827	14,15
	305	0,2693	0,3278	0,0883	14,15
	310	0,2712	0,1864	0,0506	14,15
	315	0,2714	0,0839	0,0228	14,15
	320	0,2558	0,018	0,0046	14,15
				Jumlah	0,2737
				Nilai SPF	3,87

Rata-rata nilai SPF FII (1,0%)

Replikasi	Nilai SPF
1	3,81
2	3,86
3	3,87
Jumlah	11,54
Rata-rata	3,85

Lampiran 20. Data uji statistik nilai SPF

NPar Tests

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
SPF	12	10,7125	14,71007	,46	35,00

One-Sample Kolmogorov-Smirnov Test

	SPF
N	12
Mean	10,7125
Normal Parameters ^{a,b} Std.	14,71007
Deviation	
Absolute	,429
Most Extreme Positive	,429
Differences Negative	-,243
Kolmogorov-Smirnov Z	1,486
	,240
Asymp. Sig. (2-tailed)	

a. Test distribution is Normal.

b. Calculated from data.

Oneway**Descriptives**

SPF

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
Kontrol negatif	3	,4800	,02646	,01528	,4143	,5457	,46	,51
FI (0,5%)	3	3,5233	,07506	,04333	3,3369	3,7098	3,48	3,61
FII (1,0%)	3	3,8467	,03215	,001856	3,7668	3,9265	3,81	3,87
Kontrol positif	3	35,0000	,00000	,00000	35,0000	35,0000	35,00	35,00
Total	12	10,7125	14,71007	4,24643	1,3662	20,0588	,46	35,00

Test of Homogeneity of Variances

SPF

Levene Statistic	df1	df2	Sig.
7,989	3	8	,009

ANOVA

SPF

	Sum of Squares	Df	Mean Square	F	Sig.
Between Groups	2380,231	3	793,410	430811,130	,000
Within Groups	,015	8	,002		
Total	2380,246	11			

Post Hoc Tests**Multiple Comparisons**

Dependent Variable: SPF

Tukey HSD

(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Kontrol negatif	FI (0,5%)	-3,04333 [*]	,03504	,000	-3,1555	-2,9311
	FII (1,0%)	-3,36667 [*]	,03504	,000	-3,4789	-3,2545
	Kontrol positif	-34,52000 [*]	,03504	,000	-34,6322	-34,4078
	Kontrol negatif	3,04333 [*]	,03504	,000	2,9311	3,1555
FI (0,5%)	FII (1,0%)	-,32333 [*]	,03504	,000	-,4355	-,2111
	Kontrol positif	-31,47667 [*]	,03504	,000	-31,5889	-31,3645
	Kontrol negatif	3,36667 [*]	,03504	,000	3,2545	3,4789
FII (1,0%)	FI (0,5%)	,32333 [*]	,03504	,000	,2111	,4355
	Kontrol positif	-31,15333 [*]	,03504	,000	-31,2655	-31,0411
	Kontrol negatif	34,52000 [*]	,03504	,000	34,4078	34,6322
Kontrol positif	FI (0,5%)	31,47667 [*]	,03504	,000	31,3645	31,5889
	FII (1,0%)	31,15333 [*]	,03504	,000	31,0411	31,2655

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

Homogeneous Subsets

SPF

Tukey HSD^a

Formula	N	Subset for alpha = 0.05			
		1	2	3	4
Kontrol negatif	3	,4800			
FI (0,5%)	3		3,5233		
FII (1,0%)	3			3,8647	
Kontrol positif	3				35,0000
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.

Lampiran 21. Gambar pengujian mutu fisik krim isomiristisin



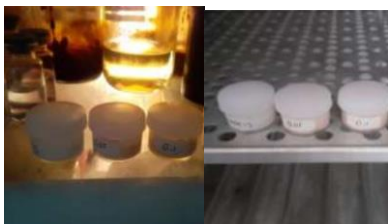
Uji tipe krim Krim hari 21 krim sebelum *cycling test* krim sesudah *cycling test*



Hasil uji tipe krim Krim hari 1 Uji viskositas Uji daya sebar



Uji *pH* Uji daya lekat Uji homogenitas



Uji stabilitas *cycling test*

Lampiran 22. Gambar pengujian potensi tabir surya secara in vivo



Lampu UVB 80W



Kontrol positif Wardah
daycream SPF 35



Hasil eritema pada punggung
Kelinci



Hewan uji kelinci yang
digunakan

Lampiran 23. Perhitungan luas eritema hewan uji kelinci

Kelompok perlakuan	Luas eritema (cm)	Rata-rata	SD	Rata-rata $\pm$ SD
	0,3			
1	0,3			
	0,2	0,27	0,06	0,27 $\pm$ 0,06
	0,2			
2	0,2	0,23	0,06	0,23 $\pm$ 0,06
	0,3			
	0,4			
3	0,4	0,33	0,12	0,43 $\pm$ 0,12
	0,2			
	0			
4	0	0	0	0
	0			

Lampiran 24. Surat keterangan kode etik hewan uji kelinci

**PEMERINTAH PROVINSI JAWA TENGAH**
RUMAH SAKIT UMUM DAERAH Dr. MOEWARDI
Jalan Kolonel Sutarto No. 132 Surakarta Kode Pos 54=7126 Telp (0271) 634634
Faksimile (0271) 637412, Email : rsmoewardi@jatengprov.go.id
Website : rsmoewardi.jatengprov.go.id

BUKTI PENGAJUAN KELAikan ETIK

Yang Bertanda tangan dibawah ini menyatakan bahwa data yang saya isikan adalah benar.

Peneliti : Rengganis

Judul Penelitian : FORMULASI DAN UJI AKTIVITAS PERLINDUNGAN TABIR SURYA KRIM ISOMIRISTISIN SECARA In Vitro DAN In Vivo

Lokasi Tempat Penelitian : Laboratorium 14 Farmakologi, Universitas Setia Budi


23175260A-0300

Mengetahui
Petugas 

Surakarta, 25 Februari 2021
Peneliti

(Rengganis)
23175260A


24/3

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