Lampiran 1 Certificate Of Analysis Ekstrak Kulit Buah Manggis

LANSIDA
Jl. Karanglo, Bumen KG 3 No.519 Yogyakarta 55173
Telp. 0851 0666 8808 e-mail: lansida@yahoo.com

SURAT KETERANGAN
No. 2501/LHT/049

Dengan ini menerangkan bahwa,

Nama : Iis Maesyaroh
NIM : 211FF03074
Institusi : Fakultas Farmasi Universitas Bhakti Kencana

telah melakukan pemesanan Ekstrak Etanol 70% Kulit Buah Manggis (*Garcinia mangostana* L.) di Lansida untuk keperluan penelitian dengan judul :

FORMULASI DAN EVALUASI KRIM DENGAN EKSTRAK KULIT BUAH MANGGIS (*Garcinia mangostana* L.) DENGAN KOMBINASI BEMOTRIZINOL SEBAGAI TABIR SURYA

Demikian surat keterangan ini dibuat untuk digunakan sebagaimana mestinya.

Yogyakarta, 10 Januari 2025

Divisi Teknik,

LANSIDA Herbal Technology

Apriyani Susilowati, S.Si.

Certificate Of Analysis Tinosorb Aqua Life

BASF
We create chemistry

Certificate of Analysis

PT BASF Distribution Indonesia

Attention! Please note that the certificates of analysis are also conveniently available on your BASF online portal.

PT BAHTERA ADI JAYA

BLOK 19 KAV 35, NGALIYAN NGALIYAN

50181 KOTA SEMARANG, JAWA TENGAH

Indonesia

2024-09-27 Certificate No 2482
Page 1 of 2

otilia.par@basf.com
CONT CALID
+34 93 77-30173

Inspection Certificate 3.1 according to EN 10204

Tinosorb® S Lite Aqua

25KG Plastic jerricans
Purchase order/Customer material
PO24/07/0870

Material	50509790
Order	6012317579 000010
Delivery	6214423421 000010
Batch	0028560572
Batch/Qty	50.000 KG
Total	50.000 KG
Transport	00000000001227682227

Manufacturing Location: ES, 08755 Castellbisbal (Barcelona), Pol.Ind. San Vicente S/N

Characteristic Method	Unit	Value	Lower Limit	Upper Limit
APPEARANCE 8000		PASS		
ODOR 8364		PASS		
ACTIVE INGREDIENT 9210	%	19	18	22
RELATIVE ABSORPTION 9161		150	144	176
PH VALUE (20°C; AS IS) EN 1262		10,1	8,0	11,0
VISCOSITY BROOK; 25°C; RVT ISO 2555	mPa.s	24	0	200
DRY RESIDUE ISO 3251	%	44,2	40,0	50,0

Released by Otilia Par

Production date 04.08.2024
Retest date 04.08.2026

The above-mentioned data describes the relevant parameters of the product at the time of issuing this certificate of analysis (CoA). The data is controlled at regular intervals as part of our quality assurance program and is provided for reference only. The contractually agreed quality of the product at the time of passing of risk is exclusively determined by our product specification. Unless specifically agreed by the Parties in writing signed by authorized representatives, no suitability for a particular use shall be presumed or implied based on the CoA and the customer is solely responsible for determining and verifying the suitability of the use of the product for any purpose.

This is a computer-generated document. No signature is required.

Certificate Of Analysis Trietanolamin

Specification

8.22341.5000 Triethanolamine EMPLURA®

	Specification	
Assay (GC, area%)	≥ 99.0	% (a/a)
Density (d 20 °C/ 4 °C)	1.122 - 1.125	
Water (K. F.)	≤ 0.30	%
Identity (IR)	passes test	

Due to its specific melting range the product may be solid, liquid, a solidified melt or a supercooled melt.

Dr. Oliver Schramel
Responsible laboratory manager quality control

This document has been produced electronically and is valid without a signature.

Merck KGaA, Frankfurter Straße 250, 64293 Darmstadt (Germany): +49 6151 72-0
EMD Millipore Corporation - a subsidiary of Merck KGaA, Darmstadt, Germany
290 Concord Road, Billerica, MA 01821, USA, Phone: (978) 715-4321

Certificate Of Analysis Asam Stearate

PT.BRATACO

HASIL PEMERIKSAAN

Nama Bahan : Acid Stearic Lokal
Batch : JT 0024/18 (B 180104-22 W)
Ex : Wilfarin (PT. Wilmar Nabati Indonesia)
ED 04-2025
Grade Teknis

Jenis pemeriksaan	*Persyaratan usp nf 19*	*Hasil*
Pemerian	Zat padat mengkilat menunjukkan susunan hablur, putih atau kuning pucat,mirip lemak lilin	granul bulat, putih mengkilap
Kelarutan	Praktis tidak larut dalam air, larut dalam kloroform, larut dalam ethanol 95% dan dalam eter	sesuai
Bilangan asam	194-212 ml KOH/gr	204.22 mg KOH/gr
Bilangan sabun	200-220 ml KOH/gr	207.96 mg KOH/gr

Kesimpulan : *Memenuhi syarat*

Cikarang, 10 – 02 – 2018

Pemeriksa

Aprria Warsiki
Staff QC

Penanggung Jawab

Dra. Tri Hartati
Apoteker
SIK.3836/B

Certificate Of Analysis DMDM Hydantoin

NGUYEN BA TRADING AND MANUFACTURING CO. LTD
947/46/6 Cach Mang Thang 8 Street, Ward 7, Tan Binh District.
Tel: 39490974 – 39771039 – Fax: 39491374
Email:nguyenbachem@hotmail.com – Website: http://nguyenbachem.com

DMDM Hydantoin

Chemical name:

Dimethylol Dimethyl Hydantoin (DMDMH)

CAS NO: 6440-58-0

Trade name:

Hydantoin, 1,3-bis(hydroxymethyl)-5,5-dimethyl-,1,3-Bis(hydroxymethyl)-5,5-dimethylhydantoin;1,3-dimethylol-5,5-dimethylhydantoin;2,4-Imidazolidinedione, 1,3-bis(hydroxymethyl)-5,5-dimethyl-;Dantoindmdmh 55;Dimethylol-5,5-dimethylhydantoin;DMDM hydantoin;dmdmh;dmdmh 55;Glydant; Nipaguard

Molecular formula: C7H12N2O4

Molecular weight: 188.2

Introduction:
DMDMH isbiocide . The active ingredient provides broad-spectrum activity against common bacteria and fungi. It is approved by EPA and FDA for industrial and cosmetic applications.

Physical and Chemical Properites:
Percent Active: 55.0%
Description: Colorless liquid
PH: 6.5-7.5
Stability: Stable for 1 year @ 25 ^{0}C

Certificate Of Analysis Glyserin

PT. Palapa Muda Perkasa

CERTIFICATE OF ANALYSIS

Nama Bahan : Glycerin PH
Batch : J 0373/18
(8085038811)
Ex : P & G Chemicals, SIngapura
ED :10/2024
Grade : Farma

Jenis Pemeriksaan	*Persyaratan FI IV*	*Hasil*
Pemerian	Cairan, jernih, tidak berwarna, tidak berbau, rasa manis diikuti rasa hangat, higroskopik	Sesuai
Kelarutan	Dapat bercampur dengan air dan etanol, praktis tidak larut dalam kloroform dan dalam eter	Sesua
Identifikasi	Panaskan dengan kalium bisulfat P, terjadi uap merangsang	Positif
pH	5,5 – 7,5	5,8
Index Bias	1,471-1,474	1,472
Susut Pengeringan	≤ 2,0 %	0,00%
Bobot jenis	1,255 g/ml – 1,260 g/ml sesuai dengan kadar 98,0% – 100,0%	1,260 g/mL

Kesimpulan : Memenuhi Syarat

Certificate Of Analysis Cetyl Alcohol

AKÖMA™
FROM THE HEART

CERTIFICATE OF ANALYSIS
CETYL ALCOHOL

DESCRIPTION

Product: **Cetyl Alcohol 98%**

INCI Name: **Cetyl Alcohol**

CAS No: **36653-82-4**

EINECS No: **--**

CHARACTERISTICS

Test	Analysis	Specification
Appearance	Complies	Waxy flakes
Solubility & Clarity (Molten)	Complies	Complies
Colour, (APHA)	5	20 maximum
Acid Value (mg KOH/g)	<0.01	1.0 maximum
Saponification Value (mg KOH/g)	0.20	2.0 maximum
Iodine Value, gI_2/100g	<0.04	2.0 maximum
Hydroxyl Value (mg KOH/g)	233.0	218 - 238
Moisture Content, %	0.118	0.3 maximum
Solidification Point, °C	49.0	46.0 - 52.0 maximum
Chain Length Distribution (%)		
C14	0.09	3.0 maximum
C16	99.00	95.0 maximum
C18	0.050	3.0 maximum

This product has been tested and passes EP monograph for Cetyl Alcohol

We confirm that the above is a true copy of the original manufacturer's/supplier's COA.

We believe the information herein to be reliable. However, no warranty, express or implied, is made as to its accuracy or completeness, and none is made as to the fitness of this material for any purpose.

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DE21 6AS
Tel: +44 (0) 1332 613 967
E-mail: support@akoma.zendesk.com

Lampiran 2 Hasil determinasi ekstrak

LANSIDA
Herbal Technologi

Yogyakarta, 10 Januari 2025

No. : 37/LH/01/25
Hal : Hasil Determinasi

Kepada Yth.
Iis Maesyaroh
NIM : 211FF03074
Fakultas Farmasi Universitas Bhakti Kencana

Dengan hormat,
Bersama ini disampaikan hasil determinasi tumbuhan sesuai pemintaan sebagai berikut:

No.	Nama jenis	Nama Lokal
1.	*Garnicia mangostana* L.	Manggis

Kunci Determinasi:
1a, 2b, 3b, 4b, 12b, 13b, 14b, 17b, 18b, 19b, 20b, 21b, 22b, 23b, 24b, 25b, 26b, 27b, 799b, 800b, 801b, 802a, 803b, 804b, 805c, 806b, 807a, 808c, 809b, 810b, 811a, 812b, 915b, 816b, 818b, 820b, 821b, 822b, 824b, 825b, 826b, 829b, 830b, 831b, 832b, 833b, 834a, 835b, 983b, 984b, 986b, 991b, 992b, 993b, 994b, 995d, 1036c, 1038a, 1039b, 1040b, ... 90. Clusiaceae
1b, 2b.....4. Garnicia
1b, 2b, 4a, 5b,.....*Garnicia mangostana* L.
Backer, C.A., & Bakhuizen van den Brink, R.C. (1965). Flora of Java N.V.P. Noordhoff

Klasifikasi :

Kingdom	:	Plantae
Subkingdom	:	Tracheobionta
Superdivisio	:	Spermatophyta
Divisio	:	Magnoliophyta
Classis	:	Magnoliopsida
Ordo	:	Theales
Familia	:	Clusiaceae
Genus	:	Garcinia
Species	:	*Garnicia mangostana* L.

Demikian semoga berguna bagi saudara.

Divisi Teknik-Galenika

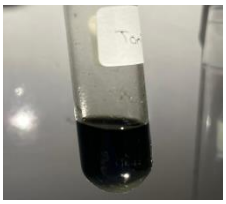
Apriyani Susilowati, S.Si.

Jl. Karanglo, Bumen KG III/519 Yogyakarta
Telp. 0851 06668808 email: lansida@yahoo.com

Lampiran 3 hasil uji skrining fitokimia ekstrak

alkaloid

polifenol



Tannin

Saponin

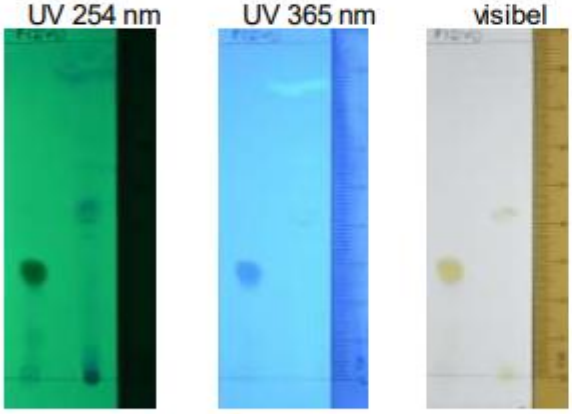
terpenoid

steroid

TLC PROFILE

Sample number	: 250133049b
Sample detail	: Ekstrak Kulit Buah Manggis
Analysis	: Flavonoid
Adsorbent	: Silicagel 60 F_{254} (Al - Sheet)
Mobile Phase	: Etil Asetat : Asam Formiat : Asam Asetat : Air (100:11:11:27)
Detection	: Aluminium Chloride

UV 254 nm UV 365 nm visibel



Kiri : Comparator Quercetin
Kanan : Ekstrak Kulit Buah Manggis

Warna spot flavonoid di visibel : kuning
Rf. flavonoid terdeteksi : 0,51

Lampiran 4 Hasil Uji Kadar Air Dan Flavonoid

LANSIDA

SERTIFIKAT HASIL UJI

Nomor : 250133049b
Nama Sampel : Ekstrak Kulit Buah Manggis (*Garcinia mangostana* L.)
Uji : Kadar Air, Kualitatif Flavonoid
Metode : Gravimetri, TLC
Tanggal : 10 Januari 2025
Permintaan : Iis Maesyaroh
NIM : 211FF03074
Institusi : Fakultas Farmasi Universitas Bhakti Kencana

Hasil Uji

Parameter Uji	Hasil Uji	Metode
Kadar Air	5,92 % b/b	Gravimetri
Kualitatif Flavonoid	Positif	TLC

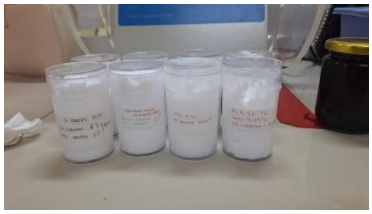
Divisi Teknis

LANSIDA Herbal Centre

Pradekatiwi, S.Si.

Jl. Karanglo, Bumen KG III/519 Yogyakarta 55173
Telp. 0815-6893377 email : lansida@yahoo.com

Lampiran 5 Hasil Optimasi Basis Dan Evaluasi Optimasi Basis




Hasil optimasi basis

Lampiran 6 Evaluasi Basis Dan Evaluasi Optimasi Basis

a. organoleptik

parameter	Run 1	Run 2	Run 3	Run 4	Run 5
Bentuk	semipadat	semipadat	Semi padat	Semi padat	semipadat
Warna	putih	putih	putih	putih	Putih
Aroma	Tidak bau	Tidak babu	Tidak bau	Tidak bau	Tidak bau

b. homogenitas


Run 1

Run 2

Run 3

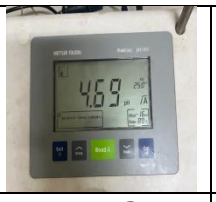
Run 4

Run 5

Replikasi	Run 1	Run 2	Run 3	Run 4	Run 5
1	Homogen	Homogen	Homogen	Homogen	Homogen
2	Homogen	Homogen	Homogen	Homogen	Homogen
3	Homogen	Homogen	Homogen	Homogen	Homogen

c. pH

Run 1


Run 2


Run 3


Run 4


Run 5

Replikasi	Run 1	Run 2	Run 3	Run 4	Run 5
1	6,00	5,96	6,69	5,25	6,87
2	5,98	5,99	5,89	6,99	4,98
3	5,99	5,98	6,11	6,31	6,48
Rata-rata	5,99±0,01	5,98±0,02	5,56 ±0,76	6,18±0,88	6,11±1,00

d. Viskositas

Replikasi	Run 1	Run 2	Run 3	Run 4	Run 5
1	15457	15387	15798	15288	15487
2	15568	14993	15780	15183	15490
3	15687	16396	15791	15987	15480
Rata-rata	15571±115	15574±746	15790±9,07	15486±437	15486±5,13

e. Daya sebar

Replikasi	Run 1	Run 2	Run 3	Run 4	Run 5
1	5,74	5,21	6,53	6,02	5,93
2	5,31	5,93	6,22	6,18	5,43
3	6,85	5,01	6,39	5,84	6,01
Rata-rata	5,97±0,79	5,38±0,48	6,38±0,16	6,01±0,17	5,79±0,31

f. Daya lekat

Replikasi	Run 1	Run 2	Run 3	Run 4	Run 5
1	7,94	6,56	6,21	7,49	7,59
2	7,3	6,36	5,73	6,85	7,88
3	6,84	6,53	5,89	6,63	7,31
Rata-rata	7,41±0,55	6,48±0,11	5,94±0,24	6,99±0,45	7,59 ± 0,29

Lampiran 2 Evaluasi organoleptik Stabilitas Real Time

		
Batch 1	Batch 2	Batch 3

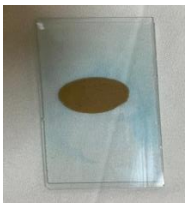
Hari ke-	Pengamatan	F0	F1	F2	F3
0	Warna	P	CT	P	CM
	Aroma	BKA	BKAE	BKAB	BKAEB
	Bentuk	K	K	K	K
7	Warna	P	CT	P	CM
	Aroma	BKA	BKAE	BKAB	BKAEB
	Bentuk	K	K	K	K
14	Warna	P	CT	P	CM
	Aroma	BKA	BKAE	BKAB	BKAEB
	Bentuk	K	K	K	K
21	Warna	P	CT	P	CM
	Aroma	BKA	BKAE	BKAB	BKAEB
	Bentuk	K	K	K	K
28	Warna	P	CT	P	CM
	Aroma	BKA	BKAE	BKAB	BKAEB
	Bentuk	K	K	K	K

Keterangan :

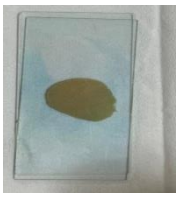
P: putih
CT: coklat tua
CM: coklat muda
BKA: bau khas aromatic
BKAE: bau khas aroma ekstrak
BKAB: bau khas aroma bemotrizinol
BKAEB: bau khas aroma ekstrak dan bemotrizinol
K: kental

Lampiran 8 Evaluasi Homgenitas Stabilitas Real Time


F0


F1


F2


F3

Hari ke-	Batch 1				Batch 2				Batch 3			
	F0	**F1**	**F2**	**F3**	**F0**	**F1**	**F2**	**F3**	**F0**	**F1**	**F2**	**F3**
0	H	H	H	H	H	H	H	H	H	H	H	H
0	H	H	H	H	H	H	H	H	H	H	H	H
0	H	H	H	H	H	H	H	H	H	H	H	H
7	H	H	H	H	H	H	H	H	H	H	H	H
7	H	H	H	H	H	H	H	H	H	H	H	H
7	H	H	H	H	H	H	H	H	H	H	H	H
14	H	H	H	H	H	H	H	H	H	H	H	H
14	H	H	H	H	H	H	H	H	H	H	H	H
14	H	H	H	H	H	H	H	H	H	H	H	H
21	H	H	H	H	H	H	H	H	H	H	H	H
21	H	H	H	H	H	H	H	H	H	H	H	H
21	H	H	H	H	H	H	H	H	H	H	H	H
28	H	H	H	H	H	H	H	H	H	H	H	H
28	H	H	H	H	H	H	H	H	H	H	H	H
28	H	H	H	H	H	H	H	H	H	H	H	H

Keterangan :

H = Homogen

Uji pH real time selama 28 hari

Formula 0

Formula 1

Formula 2

Formula 3

Formula	Hari ke-	Batch			Rata-rata±SD
		1	2	3	
F0	0	6,49	6,63	5,69	6,27±0,51
	7	6,35	6,53	6,30	6,39±0,12
	14	6,88	6,88	6,94	6,90±0,03
	21	6,76	6,69	6,65	6,70±0,06
	28	6,26	6,36	6,35	6,32±0,06
F1	0	4,19	4,90	5,78	4,96±0,80
	7	4,80	4,990	5,44	5,05±0,35
	14	5,30	5,77	6,13	5,73±0,41
	21	5,05	5,08	5,57	5,23±0,30
	28	5,04	4,89	5,45	5,13±0,29
F2	0	6,46	6,65	6,49	6,53±0,10
	7	6,48	6,46	5,94	6,29±0,31
	14	4,34	6,12	6,20	5,87±0,11
	21	6,87	6,91	6,56	6,78±0,19
	28	6,75	6,76	6,35	6,62±0,23
F3	0	5,22	5,89	5,92	5,68±0,41
	7	5,61	5,98	5,73	6,77±0,19
	14	5,30	5,26	5,43	5,33±0,09
	21	6,15	5,24	5,91	5,87±0,31
	28	5,97	5,68	5,92	5,86±0,015

Lampiran 9 Hasil Analisis Statistic pH Krim Tabir Surya

Uji normalitas

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Hari_ke	Statistic	df	Sig.	Statistic	df	Sig.
pH_F0	0	.311	3	.	.897	3	.375
	7	.307	3	.	.904	3	.398
	14	.363	3	.	.802	3	.119
	21	.238	3	.	.976	3	.702
	28	.353	3	.	.824	3	.174
pH_F1	0	.195	3	.	.996	3	.882
	7	.332	3	.	.864	3	.278
	14	.202	3	.	.994	3	.854
	21	.355	3	.	.819	3	.160
	28	.284	3	.	.933	3	.500
pH_F2	0	.331	3	.	.865	3	.281
	7	.374	3	.	.778	3	.062
	14	.238	3	.	.976	3	.702
	21	.347	3	.	.834	3	.200
	28	.314	3	.	.893	3	.363
pH_F3	0	.359	3	.	.811	3	.142
	7	.257	3	.	.960	3	.618
	14	.299	3	.	.915	3	.433
	21	.223	3	.	.985	3	.766
	28	.325	3	.	.875	3	.309

a. Lilliefors Significance Correction

uji homogenitas

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
pH_F0	Based on Mean	7.122	4	10	.006
	Based on Median	.720	4	10	.597
	Based on Median and with adjusted df	.720	4	2.692	.637
	Based on trimmed mean	6.013	4	10	.010
pH_F1	Based on Mean	1.043	4	10	.432
	Based on Median	.674	4	10	.625
	Based on Median and with adjusted df	.674	4	6.980	.631
	Based on trimmed mean	1.021	4	10	.442

pH_F2	Based on Mean	2.507	4	10	.109
	Based on Median	.216	4	10	.923
	Based on Median and with adjusted df	.216	4	5.238	.919
	Based on trimmed mean	2.095	4	10	.156
pH_F3	Based on Mean	2.546	4	10	.105
	Based on Median	.425	4	10	.787
	Based on Median and with adjusted df	.425	4	4.221	.786
	Based on trimmed mean	2.273	4	10	.133

uji one way anova

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
pH_F0	Between Groups	.367	4	.092	1.530	.266
	Within Groups	.599	10	.060		
	Total	.965	14			
pH_F1	Between Groups	1.115	4	.279	1.268	.345
	Within Groups	2.199	10	.220		
	Total	3.313	14			
pH_F2	Between Groups	.622	4	.156	3.925	.036
	Within Groups	.396	10	.040		
	Total	1.018	14			
pH_F3	Between Groups	.584	4	.146	2.239	.137
	Within Groups	.652	10	.065		
	Total	1.237	14			

uji post hoc

Formula 0

Games-Howell	0	7	.28667	.14461	.431	-.4605	1.0339
		14	.04667	.30476	1.000	-1.6557	1.7491
		21	-.02000	.13064	1.000	-.9030	.8630
		28	.35667	.13055	.291	-.5279	1.2413
	7	0	-.28667	.14461	.431	-1.0339	.4605
		14	-.24000	.28587	.899	-2.1756	1.6956
		21	-.30667	.07688	.113	-.7348	.1215
		28	.07000	.07674	.876	-.3592	.4992
	14	0	-.04667	.30476	1.000	-1.7491	1.6557
		7	.24000	.28587	.899	-1.6956	2.1756
		21	-.06667	.27907	.999	-2.1503	2.0170
		28	.31000	.27903	.798	-1.7746	2.3946

	21	0	.02000	.13064	1.000	-.8630	.9030
		7	.30667	.07688	.113	-.1215	.7348
		14	.06667	.27907	.999	-2.0170	2.1503
		28	.37667*	.04522	.005	.1756	.5777
	28	0	-.35667	.13055	.291	-1.2413	.5279
		7	-.07000	.07674	.876	-.4992	.3592
		14	-.31000	.27903	.798	-2.3946	1.7746
		21	-.37667*	.04522	.005	-.5777	-.1756

Formula 1

Games-Howell	0	7	-.09000	.50099	1.000	-2.9516	2.7716
		14	-.77667	.51887	.624	-3.5182	1.9649
		21	-.27000	.49108	.974	-3.2318	2.6918
		28	-.17000	.48938	.995	-3.1520	2.8120
	7	0	.09000	.50099	1.000	-2.7716	2.9516
		14	-.68667	.31186	.337	-2.0987	.7254
		21	-.18000	.26304	.950	-1.3617	1.0017
		28	-.08000	.25985	.997	-1.2528	1.0928
	14	0	.77667	.51887	.624	-1.9649	3.5182
		7	.68667	.31186	.337	-.7254	2.0987
		21	.50667	.29567	.520	-.8806	1.8939
		28	.60667	.29284	.387	-.7798	1.9931
	21	0	.27000	.49108	.974	-2.6918	3.2318
		7	.18000	.26304	.950	-1.0017	1.3617
		14	-.50667	.29567	.520	-1.8939	.8806
		28	.10000	.24019	.991	-.9682	1.1682
	28	0	.17000	.48938	.995	-2.8120	3.1520
		7	.08000	.25985	.997	-1.0928	1.2528
		14	-.60667	.29284	.387	-1.9931	.7798
		21	-.10000	.24019	.991	-1.1682	.9682

Formula 2

Games-Howell	0	7	.24000	.18634	.722	-.9291	1.4091
		14	.31333	.08724	.098	-.0760	.7027
		21	-.24667	.12534	.438	-.9034	.4101
		28	-.05667	.13569	.990	-.7977	.6844
	7	0	-.24000	.18634	.722	-1.4091	.9291
		14	.07333	.18809	.992	-1.0730	1.2197
		21	-.48667	.20851	.317	-1.5116	.5383
		28	-.29667	.21489	.671	-1.3165	.7232
	14	0	-.31333	.08724	.098	-.7027	.0760
		7	-.07333	.18809	.992	-1.2197	1.0730
		21	-.56000	.12793	.075	-1.2071	.0871
		28	-.37000	.13808	.254	-1.0975	.3575
	21	0	.24667	.12534	.438	-.4101	.9034
		7	.48667	.20851	.317	-.5383	1.5116
		14	.56000	.12793	.075	-.0871	1.2071
		28	.19000	.16482	.777	-.5465	.9265
	28	0	.05667	.13569	.990	-.6844	.7977
		7	.29667	.21489	.671	-.7232	1.3165
		14	.37000	.13808	.254	-.3575	1.0975
		21	-.19000	.16482	.777	-.9265	.5465

Formula 3

Games-Howell	0	7	-.08667	.25811	.996	-1.5170	1.3437
		14	.35667	.23954	.643	-1.3111	2.0244
		21	-.18000	.29364	.965	-1.5360	1.1760
		28	-.17000	.25051	.947	-1.6694	1.3294
	7	0	.08667	.25811	.996	-1.3437	1.5170
		14	.44333	.12046	.134	-.2213	1.1079
		21	-.09333	.20822	.988	-1.1241	.9374
		28	-.08333	.14103	.969	-.7228	.5561
	14	0	-.35667	.23954	.643	-2.0244	1.3111
		7	-.44333	.12046	.134	-1.1079	.2213
		21	-.53667	.18469	.257	-1.7454	.6721
		28	-.52667*	.10317	.050	-1.0514	-.0019
	21	0	.18000	.29364	.965	-1.1760	1.5360
		7	.09333	.20822	.988	-.9374	1.1241
		14	.53667	.18469	.257	-.6721	1.7454
		28	.01000	.19872	1.000	-1.0554	1.0754
	28	0	.17000	.25051	.947	-1.3294	1.6694
		7	.08333	.14103	.969	-.5561	.7228
		14	.52667*	.10317	.050	.0019	1.0514
		21	-.01000	.19872	1.000	-1.0754	1.0554

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

Lampiran 10 Evaluasi Viskositas Stabilitas Real Time


Formula 0


Formula 1


Formula 2


Formula 3

Formula	Hari ke-	Batch			Rata-rata±SD
		1	2	3	
F0	0	16078	15672	15739	15830±218
	7	15582	15989	16289	15923±354
	14	16139	159333	15005	15692±604
	21	15778	15725	15342	15615±238
	28	15600	15383	15561	15515±116
F1	0	16374	16300	14900	15858±830
	7	16393	16458	14955	15953±881
	14	16039	15750	14806	15531±645
	21	15878	15511	14796	15395±550
	28	16050	15245	15573	15623±405
F2	0	15572	15955	16245	15924±337
	7	15826	16331	15949	16035±263
	14	16020	15233	15800	15685±406
	21	16787	14684	15729	15733±1051
	28	15467	15406	15517	15463±56
F3	0	15611	15728	16215	15876±362
	7	15950	16231	15615	15932±308
	14	15478	15889	15061	15476±414
	21	16125	15187	15363	15558±498
	28	15889	15350	15550	15596±272

Lampiran 11 Hasil Analisis Statistic Viskositas Krim Tabir Surya

Uji normalitas

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Hari_ke	Statistic	df	Sig.	Statistic	df	Sig.
Viskositas_F0	0	.328	3	.	.870	3	.295
	7	.195	3	.	.996	3	.883
	14	.321	3	.	.881	3	.327
	21	.345	3	.	.840	3	.213
	28	.322	3	.	.880	3	.323
Viskositas_F1	0	.369	3	.	.788	3	.085
	7	.372	3	.	.782	3	.073
	14	.299	3	.	.914	3	.432
	21	.250	3	.	.967	3	.649
	28	.215	3	.	.989	3	.797
Viskositas_F2	0	.203	3	.	.994	3	.848
	7	.295	3	.	.919	3	.450
	14	.279	3	.	.939	3	.524
	21	.175	3	.	1.000	3	.993
	28	.193	3	.	.997	3	.891
Viskositas_F3	0	.325	3	.	.875	3	.310
	7	.190	3	.	.997	3	.903
	14	.175	3	.	1.000	3	.992
	21	.319	3	.	.885	3	.339
	28	.234	3	.	.978	3	.718

a. Lilliefors Significance Correction

Uji homogenitas

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
Viskositas_F0	Based on Mean	2.928	4	10	.077
	Based on Median	.578	4	10	.685
	Based on Median and with adjusted df	.578	4	4.343	.694
	Based on trimmed mean	2.640	4	10	.097
Viskositas_F1	Based on Mean	1.129	4	10	.397
	Based on Median	.082	4	10	.986
	Based on Median and with adjusted df	.082	4	6.471	.985
	Based on trimmed mean	.955	4	10	.473
Viskositas_F2	Based on Mean	2.100	4	10	.156
	Based on Median	1.787	4	10	.208
	Based on Median and with adjusted df	1.787	4	3.849	.299
	Based on trimmed mean	2.086	4	10	.158
Viskositas_F3	Based on Mean	.504	4	10	.734
	Based on Median	.119	4	10	.973
	Based on Median and with adjusted df	.119	4	6.993	.971
	Based on trimmed mean	.465	4	10	.760

Uji one way anova

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
Viskositas_F0	Between Groups	321178.933	4	80294.733	.661	.633
	Within Groups	1215432.000	10	121543.200		
	Total	1536610.933	14			
Viskositas_F1	Between Groups	608209.733	4	152052.433	.331	.851
	Within Groups	4587984.000	10	458798.400		
	Total	5196193.733	14			
Viskositas_F2	Between Groups	590480.267	4	147620.067	.507	.732
	Within Groups	2913864.667	10	291386.467		
	Total	3504344.933	14			
Viskositas_F3	Between Groups	495119.600	4	123779.900	.859	.521
	Within Groups	1441345.333	10	144134.533		
	Total	1936464.933	14			

Uji post hoc

Formula 0

Games-Howell	0	7	-93.33333	240.00370	.993	-1281.1924	1094.5258
		14	137.33333	370.72167	.993	-2129.5516	2404.2183
		21	214.66667	186.16600	.777	-616.3483	1045.6816
		28	315.00000	142.31030	.362	-431.6587	1061.6587
	7	0	93.33333	240.00370	.993	-1094.5258	1281.1924
		14	230.66667	404.29376	.972	-1807.4812	2268.8145
		21	308.00000	246.32634	.732	-872.3099	1488.3099
		28	408.33333	215.10721	.485	-950.3575	1767.0242
	14	0	-137.33333	370.72167	.993	-2404.2183	2129.5516
		7	-230.66667	404.29376	.972	-2268.8145	1807.4812
		21	77.33333	374.84589	.999	-2142.2569	2296.9235
		28	177.66667	355.11109	.980	-2349.5351	2704.8684
	21	0	-214.66667	186.16600	.777	-1045.6816	616.3483
		7	-308.00000	246.32634	.732	-1488.3099	872.3099
		14	-77.33333	374.84589	.999	-2296.9235	2142.2569
		28	100.33333	152.73215	.954	-731.1625	931.8291
	28	0	-315.00000	142.31030	.362	-1061.6587	431.6587
		7	-408.33333	215.10721	.485	-1767.0242	950.3575
		14	-177.66667	355.11109	.980	-2704.8684	2349.5351
		21	-100.33333	152.73215	.954	-931.8291	731.1625

Formula 1

Games-Howell	0	7	-77.33333	685.93934	1.000	-3127.5677	2972.9010
		14	326.33333	607.04649	.978	-2460.1659	3112.8326
		21	463.00000	575.17099	.915	-2306.1694	3232.1694
		28	235.33333	533.40052	.988	-2665.6875	3136.3542
	7	0	77.33333	685.93934	1.000	-2972.9010	3127.5677
		14	403.66667	615.81130	.956	-2439.3845	3246.7178
		21	540.33333	584.41405	.873	-2296.2201	3376.8867
		28	312.66667	543.35460	.970	-2670.4856	3295.8190
	14	0	-326.33333	607.04649	.978	-3112.8326	2460.1659
		7	-403.66667	615.81130	.956	-3246.7178	2439.3845
		21	136.66667	489.42052	.998	-2067.3206	2340.6539
		28	-91.00000	439.57581	.999	-2249.2101	2067.2101
	21	0	-463.00000	575.17099	.915	-3232.1694	2306.1694
		7	-540.33333	584.41405	.873	-3376.8867	2296.2201
		14	-136.66667	489.42052	.998	-2340.6539	2067.3206
		28	-227.66667	394.38954	.971	-2064.0819	1608.7485
	28	0	-235.33333	533.40052	.988	-3136.3542	2665.6875
		7	-312.66667	543.35460	.970	-3295.8190	2670.4856
		14	91.00000	439.57581	.999	-2067.2101	2249.2101
		21	227.66667	394.38954	.971	-1608.7485	2064.0819

Formula 2

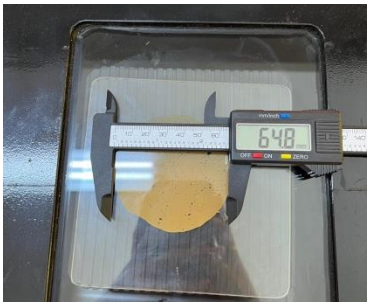
Games-Howell	0	7	-111.33333	247.18369	.988	-1244.6946	1022.0279
		14	239.66667	304.86573	.922	-1139.3990	1618.7324
		21	190.66667	637.60472	.997	-3858.3489	4239.6822
		28	460.66667	197.52074	.383	-972.2097	1893.5430
	7	0	111.33333	247.18369	.988	-1022.0279	1244.6946
		14	351.00000	279.41765	.730	-1004.5297	1706.5297
		21	302.00000	625.83615	.982	-3941.0677	4545.0677
		28	572.00000	155.38840	.178	-517.1022	1661.1022
	14	0	-239.66667	304.86573	.922	-1618.7324	1139.3990
		7	-351.00000	279.41765	.730	-1706.5297	1004.5297
		21	-49.00000	650.77970	1.000	-3930.7552	3832.7552
		28	221.00000	236.61971	.866	-1525.7348	1967.7348
	21	0	-190.66667	637.60472	.997	-4239.6822	3858.3489
		7	-302.00000	625.83615	.982	-4545.0677	3941.0677
		14	49.00000	650.77970	1.000	-3832.7552	3930.7552
		28	270.00000	607.93549	.986	-4377.7337	4917.7337
	28	0	-460.66667	197.52074	.383	-1893.5430	972.2097
		7	-572.00000	155.38840	.178	-1661.1022	517.1022
		14	-221.00000	236.61971	.866	-1967.7348	1525.7348
		21	-270.00000	607.93549	.986	-4917.7337	4377.7337

Formula 3

Games-Howell	0	7	-56.00000	274.74594	.999	-1293.8087	1181.8087
		14	400.00000	317.67279	.727	-1025.1673	1825.1673
		21	317.66667	355.86811	.886	-1345.1186	1980.4519
		28	279.66667	261.78193	.815	-931.9672	1491.3005
	7	0	56.00000	274.74594	.999	-1181.8087	1293.8087
		14	456.00000	298.05257	.600	-926.9789	1838.9789
		21	373.66667	338.46927	.799	-1297.4070	2044.7403
		28	335.66667	237.59022	.653	-728.9423	1400.2756
	14	0	-400.00000	317.67279	.727	-1825.1673	1025.1673
		7	-456.00000	298.05257	.600	-1838.9789	926.9789
		21	-82.33333	374.15520	.999	-1775.1988	1610.5322
		28	-120.33333	286.14643	.991	-1501.2444	1260.5777
	21	0	-317.66667	355.86811	.886	-1980.4519	1345.1186
		7	-373.66667	338.46927	.799	-2044.7403	1297.4070
		14	82.33333	374.15520	.999	-1610.5322	1775.1988
		28	-38.00000	328.03337	1.000	-1739.4254	1663.4254
	28	0	-279.66667	261.78193	.815	-1491.3005	931.9672
		7	-335.66667	237.59022	.653	-1400.2756	728.9423
		14	120.33333	286.14643	.991	-1260.5777	1501.2444
		21	38.00000	328.03337	1.000	-1663.4254	1739.4254

Lampiran 12 Evaluasi Daya Sebar Stabilitas Real Time

Formula 0



Formula 1

Formula 2

Formula 3

Formula	Hari ke-	Batch			Rata-rata±SD
		1	2	3	
F0	0	4,74	5,54	5,53	5,51±0,04
	7	5,21	5,54	5,64	5,46±0,23
	14	5,52	5,98	5,43	5,64±0,30
	21	5,16	5,55	5,91	5,54±0,38
	28	5,45	5,24	6,03	5,57±0,41
F1	0	5,42	6,14	5,25	5,60±0,47
	7	5,35	5,76	5,94	5,68±0,30
	14	5,31	5,46	6,31	5,69±0,54
	21	5,38	5,83	5,96	5,72±0,30
	28	5,89	5,55	5,84	5,76±0,18
F2	0	5,10	5,23	6,76	5,70±0,92
	7	5,77	5,90	5,43	5,70±0,24
	14	5,46	5,66	6,13	5,75±0,35
	21	5,83	5,56	5,86	5,75±0,17
	28	5,57	5,70	6,18	5,82±0,32
F3	0	5,33	5,74	5,83	5,63±0,27
	7	5,43	5,84	5,71	5,66±0,21
	14	5,62	5,75	5,81	5,73±0,10
	21	5,64	5,77	6,04	5,82±0,20
	28	5,76	6,00	6,05	5,94±0,16

Lampiran 13 Hasil Analisis Statistic Daya Sebar Krim Tabir Surya

Uji normalitas

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Hari_ke	Statistic	df	Sig.	Statistic	df	Sig.
Dayasebar_F0	0	.337	3	.	.855	3	.253
	7	.300	3	.	.913	3	.428
	14	.329	3	.	.869	3	.292
	21	.178	3	.	.999	3	.956
	28	.285	3	.	.932	3	.496
Dayasebar_F1	0	.318	3	.	.887	3	.345
	7	.272	3	.	.946	3	.552
	14	.334	3	.	.860	3	.266
	21	.304	3	.	.908	3	.411
	28	.335	3	.	.858	3	.261
Dayasebar_F2	0	.360	3	.	.808	3	.135
	7	.280	3	.	.938	3	.518
	14	.270	3	.	.949	3	.563
	21	.353	3	.	.824	3	.174
	28	.308	3	.	.901	3	.389
Dayalsebar_F3	0	.322	3	.	.880	3	.324
	7	.261	3	.	.957	3	.602
	14	.262	3	.	.957	3	.600
	21	.257	3	.	.961	3	.619
	28	.325	3	.	.875	3	.309

a. Lilliefors Significance Correction

Uji homogenitas

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
Dayasebar_F0	Based on Mean	1.808	4	10	.204
	Based on Median	.632	4	10	.651
	Based on Median and with adjusted df	.632	4	7.064	.656
	Based on trimmed mean	1.703	4	10	.225
Dayasebar_F1	Based on Mean	1.770	4	10	.211
	Based on Median	.251	4	10	.902
	Based on Median and with adjusted df	.251	4	6.460	.899
	Based on trimmed mean	1.545	4	10	.262
Dayasebar_F2	Based on Mean	5.456	4	10	.014
	Based on Median	.532	4	10	.715
	Based on Median and with adjusted df	.532	4	2.999	.726
	Based on trimmed mean	4.589	4	10	.023
Dayalsebar_F3	Based on Mean	1.104	4	10	.406
	Based on Median	.229	4	10	.916
	Based on Median and with adjusted df	.229	4	6.945	.914
	Based on trimmed mean	1.000	4	10	.451

Uji one way anova

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
Dayasebar_F0	Between Groups	.054	4	.014	.152	.958
	Within Groups	.894	10	.089		
	Total	.949	14			
Dayasebar_F1	Between Groups	.041	4	.010	.070	.990
	Within Groups	1.459	10	.146		
	Total	1.499	14			
Dayasebar_F2	Between Groups	.029	4	.007	.031	.998
	Within Groups	2.320	10	.232		
	Total	2.348	14			
Dayalsebar_F3	Between Groups	.184	4	.046	1.212	.365
	Within Groups	.380	10	.038		
	Total	.564	14			

Uji post hoc

Formula 0

Games-Howell	0	7	.05000	.13174	.992	-.9034	1.0034
		14	-.13000	.17172	.924	-1.4038	1.1438
		21	-.02667	.21766	1.000	-1.6635	1.6101
		28	-.06000	.23725	.998	-1.8505	1.7305
	7	0	-.05000	.13174	.992	-1.0034	.9034
		14	-.18000	.21422	.904	-1.1677	.8077
		21	-.07667	.25254	.997	-1.3383	1.1850
		28	-.11000	.26961	.991	-1.5048	1.2848
	14	0	.13000	.17172	.924	-1.1438	1.4038
		7	.18000	.21422	.904	-.8077	1.1677
		21	.10333	.27552	.994	-1.1575	1.3642
		28	.07000	.29124	.999	-1.2941	1.4341
	21	0	.02667	.21766	1.000	-1.6101	1.6635
		7	.07667	.25254	.997	-1.1850	1.3383
		14	-.10333	.27552	.994	-1.3642	1.1575
		28	-.03333	.32049	1.000	-1.4637	1.3970
	28	0	.06000	.23725	.998	-1.7305	1.8505
		7	.11000	.26961	.991	-1.2848	1.5048
		14	-.07000	.29124	.999	-1.4341	1.2941
		21	.03333	.32049	1.000	-1.3970	1.4637

Formula 1

Games-Howell	0	7	-.07667	.32256	.999	-1.6572	1.5039
		14	-.09000	.41395	.999	-1.9469	1.7669
		21	-.12000	.32448	.994	-1.6980	1.4580
		28	-.15667	.29265	.976	-1.8983	1.5850
	7	0	.07667	.32256	.999	-1.5039	1.6572
		14	-.01333	.35578	1.000	-1.8499	1.8232
		21	-.04333	.24599	1.000	-1.1371	1.0505
		28	-.08000	.20216	.992	-1.0798	.9198
	14	0	.09000	.41395	.999	-1.7669	1.9469
		7	.01333	.35578	1.000	-1.8232	1.8499
		21	-.03000	.35752	1.000	-1.8602	1.8002
		28	-.06667	.32890	.999	-2.1168	1.9835
	21	0	.12000	.32448	.994	-1.4580	1.6980
		7	.04333	.24599	1.000	-1.0505	1.1371
		14	.03000	.35752	1.000	-1.8002	1.8602
		28	-.03667	.20521	1.000	-1.0597	.9864
	28	0	.15667	.29265	.976	-1.5850	1.8983
		7	.08000	.20216	.992	-.9198	1.0798
		14	.06667	.32890	.999	-1.9835	2.1168
		21	.03667	.20521	1.000	-.9864	1.0597

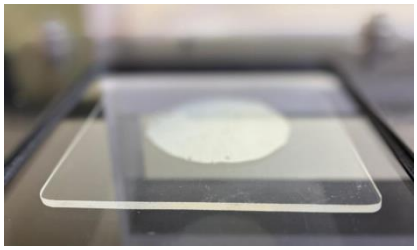
Formula 2

Games-Howell	0	7	-.00333	.55110	1.000	-3.6984	3.6917
		14	-.05333	.56878	1.000	-3.4905	3.3838
		21	-.05333	.54146	1.000	-3.9423	3.8357
		28	-.12000	.56435	.999	-3.6119	3.3719
	7	0	.00333	.55110	1.000	-3.6917	3.6984
		14	-.05000	.24304	.999	-1.1959	1.0959
		21	-.05000	.16951	.998	-.8585	.7585
		28	-.11667	.23247	.982	-1.1913	.9580
	14	0	.05333	.56878	1.000	-3.3838	3.4905
		7	.05000	.24304	.999	-1.0959	1.1959
		21	.00000	.22030	1.000	-1.2054	1.2054
		28	-.06667	.27174	.999	-1.2776	1.1443
	21	0	.05333	.54146	1.000	-3.8357	3.9423
		7	.05000	.16951	.998	-.7585	.8585
		14	.00000	.22030	1.000	-1.2054	1.2054
		28	-.06667	.20859	.996	-1.1762	1.0428
	28	0	.12000	.56435	.999	-3.3719	3.6119
		7	.11667	.23247	.982	-.9580	1.1913
		14	.06667	.27174	.999	-1.1443	1.2776
		21	.06667	.20859	.996	-1.0428	1.1762

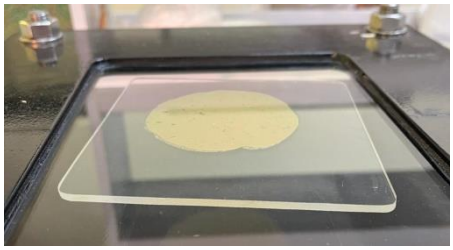
Formula 3

Games-Howell	0	7	-.02667	.19573	1.000	-.9225	.8691
		14	-.09333	.16377	.970	-1.0908	.9042
		21	-.18333	.19379	.866	-1.0760	.7094
		28	-.30333	.17801	.532	-1.2036	.5969
	7	0	.02667	.19573	1.000	-.8691	.9225
		14	-.06667	.13333	.981	-.8070	.6737
		21	-.15667	.16885	.873	-.9076	.5943
		28	-.27667	.15048	.468	-.9762	.4229
	14	0	.09333	.16377	.970	-.9042	1.0908
		7	.06667	.13333	.981	-.6737	.8070
		21	-.09000	.13047	.946	-.8066	.6266
		28	-.21000	.10562	.421	-.7289	.3089
	21	0	.18333	.19379	.866	-.7094	1.0760
		7	.15667	.16885	.873	-.5943	.9076
		14	.09000	.13047	.946	-.6266	.8066
		28	-.12000	.14795	.914	-.8029	.5629
	28	0	.30333	.17801	.532	-.5969	1.2036
		7	.27667	.15048	.468	-.4229	.9762
		14	.21000	.10562	.421	-.3089	.7289
		21	.12000	.14795	.914	-.5629	.8029

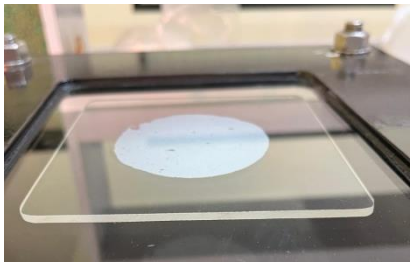
Lampiran 14 Evaluasi Daya Lekat Stabilitas Real Time



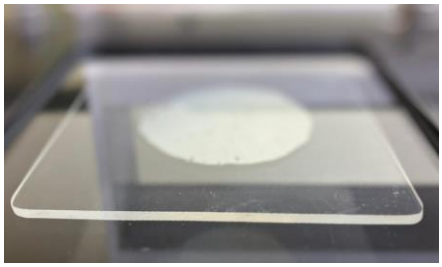
Formula 0



Formula 1



Formula 2



Formula 4

Formula	Hari ke-	Batch			Rata-rata±SD
		1	2	3	
F0	0	8,48	8,54	8,22	8,41±0,17
	7	9,18	7,17	7,51	7,95±1,08
	14	6,64	8,87	7,85	7,85±1,02
	21	9,03	7,79	7,34	8,17±0,86
	28	7,94	7,59	7,21	7,58±0,37
F1	0	9,43	8,05	8,32	8,60±1,06
	7	7,13	8,44	6,57	7,38±0,96
	14	7,95	7,74	7,84	7,84±0,11
	21	7,70	7,57	7,98	7,75±0,21
	28	7,31	8,29	7,26	7,29±0,58
F2	0	8,62	7,87	8,23	8,24±0,38
	7	8,20	8,04	8,15	8,16±0,13
	14	8,03	8,16	7,90	8,03±0,13
	21	7,50	7,60	7,51	7,54±0,05
	28	7,56	8,06	7,85	7,63±0,25
F3	0	7,73	7,79	8,19	7,90±0,25
	7	7,63	810	8,43	8,05±0,49
	14	8,70	7,09	7,42	7,74±0,85
	21	8,13	7,77	7,99	7,96±0,18
	28	8,30	7,34	7,05	7,56±0,65

Lampiran 15 Hasil Analisis Statistic Daya Lekat Krim Tabir Surya

Uji normalitas

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Hari_ke	Statistic	df	Sig.	Statistic	df	Sig.
Dayalekat_F0	0	.319	3	.	.885	3	.339
	7	.327	3	.	.873	3	.303
	14	.175	3	.	1.000	3	.995
	21	.233	3	.	.979	3	.721
	28	.178	3	.	.999	3	.955
Dayalekat_F1	0	.316	3	.	.890	3	.355
	7	.269	3	.	.949	3	.565
	14	.179	3	.	.999	3	.948
	21	.261	3	.	.957	3	.602
	28	.370	3	.	.786	3	.082
Dayalekat_F2	0	.178	3	.	.999	3	.956
	7	.207	3	.	.992	3	.831
	14	.175	3	.	1.000	3	1.000
	21	.314	3	.	.893	3	.363
	28	.209	3	.	.992	3	.824
Dayalekat_F3	0	.341	3	.	.846	3	.230
	7	.213	3	.	.990	3	.808
	14	.312	3	.	.896	3	.373
	21	.225	3	.	.984	3	.756
	28	.300	3	.	.913	3	.427

a. Lilliefors Significance Correction

Uji homogenitas

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
Dayalekat_F0	Based on Mean	2.806	4	10	.085
	Based on Median	.542	4	10	.709
	Based on Median and with adjusted df	.542	4	5.348	.713
	Based on trimmed mean	2.531	4	10	.107
Dayalekat_F1	Based on Mean	3.625	4	10	.045
	Based on Median	.687	4	10	.617
	Based on Median and with adjusted df	.687	4	6.165	.626
	Based on trimmed mean	3.252	4	10	.059
Dayalekat_F2	Based on Mean	1.502	4	10	.274
	Based on Median	1.298	4	10	.335
	Based on Median and with adjusted df	1.298	4	4.925	.385
	Based on trimmed mean	1.491	4	10	.277
Dayalekat_F3	Based on Mean	3.017	4	10	.071
	Based on Median	.583	4	10	.682
	Based on Median and with adjusted df	.583	4	4.947	.689
	Based on trimmed mean	2.717	4	10	.091

Uji one way anova

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
Dayalekat_F0	Between Groups	1.155	4	.289	.602	.670
	Within Groups	4.799	10	.480		
	Total	5.953	14			
Dayalekat_F1	Between Groups	2.366	4	.592	1.581	.253
	Within Groups	3.743	10	.374		
	Total	6.110	14			
Dayalekat_F2	Between Groups	.959	4	.240	4.986	.018
	Within Groups	.481	10	.048		
	Total	1.440	14			
Dayalekat_F3	Between Groups	.456	4	.114	.404	.801
	Within Groups	2.817	10	.282		
	Total	3.272	14			

Uji post hoc

Formula 0

Games-Howell	0	7	.46000	.62885	.931	-4.1218	5.0418
		14	.22667	.35551	.956	-2.1039	2.5573
		21	.30000	.50278	.964	-3.2573	3.8573
		28	.83333	.23255	.144	-.4552	2.1219
	7	0	-.46000	.62885	.931	-5.0418	4.1218
		14	-.23333	.70891	.996	-3.9004	3.4337
		21	-.16000	.79307	.999	-3.7815	3.4615
		28	.37333	.65593	.970	-3.7193	4.4660
	14	0	-.22667	.35551	.956	-2.5573	2.1039
		7	.23333	.70891	.996	-3.4337	3.9004
		21	.07333	.59991	1.000	-2.7716	2.9182
		28	.60667	.40147	.613	-1.3774	2.5908
	21	0	-.30000	.50278	.964	-3.8573	3.2573
		7	.16000	.79307	.999	-3.4615	3.7815
		14	-.07333	.59991	1.000	-2.9182	2.7716
		28	.53333	.53626	.844	-2.5432	3.6098
	28	0	-.83333	.23255	.144	-2.1219	.4552
		7	-.37333	.65593	.970	-4.4660	3.7193
		14	-.60667	.40147	.613	-2.5908	1.3774
		21	-.53333	.53626	.844	-3.6098	2.5432

Formula 1

Games-Howell	0	7	1.22000	.69666	.502	-1.9929	4.4329
		14	.75667	.42659	.542	-2.3799	3.8933
		21	.85000	.43924	.478	-2.0320	3.7320
		28	.64667	.54636	.763	-1.8306	3.1240
	7	0	-1.22000	.69666	.502	-4.4329	1.9929
		14	-.46333	.55741	.901	-4.6385	3.7119
		21	-.37000	.56716	.952	-4.3220	3.5820
		28	-.57333	.65364	.891	-3.7864	2.6398
	14	0	-.75667	.42659	.542	-3.8933	2.3799
		7	.46333	.55741	.901	-3.7119	4.6385
		21	.09333	.13532	.946	-.6341	.8207
		28	-.11000	.35198	.996	-2.6454	2.4254
	21	0	-.85000	.43924	.478	-3.7320	2.0320
		7	.37000	.56716	.952	-3.5820	4.3220
		14	-.09333	.13532	.946	-.8207	.6341
		28	-.20333	.36721	.973	-2.4736	2.0669
	28	0	-.64667	.54636	.763	-3.1240	1.8306
		7	.57333	.65364	.891	-2.6398	3.7864
		14	.11000	.35198	.996	-2.4254	2.6454
		21	.20333	.36721	.973	-2.0669	2.4736

Formula 2

Games-Howell	0	7	.07667	.22930	.996	-1.3423	1.4956
		14	.21000	.22920	.874	-1.2102	1.6302
		21	.70000	.21871	.236	-.9106	2.3106
		28	.41667	.26060	.572	-.8336	1.6669
	7	0	-.07667	.22930	.996	-1.4956	1.3423
		14	.13333	.10635	.729	-.3395	.6061
		21	.62333*	.08131	.026	.1472	1.0995
		28	.34000	.16337	.403	-.5251	1.2051
	14	0	-.21000	.22920	.874	-1.6302	1.2102
		7	-.13333	.10635	.729	-.6061	.3395
		21	.49000*	.08103	.046	.0161	.9639
		28	.20667	.16323	.727	-.6591	1.0724
	21	0	-.70000	.21871	.236	-2.3106	.9106
		7	-.62333*	.08131	.026	-1.0995	-.1472
		14	-.49000*	.08103	.046	-.9639	-.0161
		28	-.28333	.14814	.492	-1.3219	.7552
	28	0	-.41667	.26060	.572	-1.6669	.8336
		7	-.34000	.16337	.403	-1.2051	.5251
		14	-.20667	.16323	.727	-1.0724	.6591
		21	.28333	.14814	.492	-.7552	1.3219

Formula 3

Games-Howell	0	7	-.15000	.27335	.975	-1.4967	1.1967
		14	.16667	.51178	.996	-3.1677	3.5010
		21	-.06000	.17839	.996	-.8939	.7739
		28	.34000	.40438	.900	-2.0811	2.7611
	7	0	.15000	.27335	.975	-1.1967	1.4967
		14	.31667	.54310	.969	-2.6747	3.3080
		21	.09000	.25467	.995	-1.3395	1.5195
		28	.49000	.44335	.798	-1.7043	2.6843
	14	0	-.16667	.51178	.996	-3.5010	3.1677
		7	-.31667	.54310	.969	-3.3080	2.6747
		21	-.22667	.50205	.986	-3.7390	3.2857
		28	.17333	.61948	.998	-2.6768	3.0234
	21	0	.06000	.17839	.996	-.7739	.8939
		7	-.09000	.25467	.995	-1.5195	1.3395
		14	.22667	.50205	.986	-3.2857	3.7390
		28	.40000	.39199	.833	-2.1938	2.9938
	28	0	-.34000	.40438	.900	-2.7611	2.0811
		7	-.49000	.44335	.798	-2.6843	1.7043
		14	-.17333	.61948	.998	-3.0234	2.6768
		21	-.40000	.39199	.833	-2.9938	2.1938

Lampiran 16 Evaluasi Organoptik Stabilitas Cycling Test

Batch 1

Batch 2

Batch 3

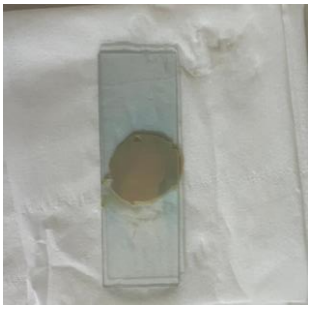
Sikslus ke-	Pengamatan	F0	F1	F2	F3
1	Warna	P	CT	P	CM
	Aroma	BKA	BKAE	BKAB	BKAEB
	Bentuk	K	K	K	K
2	Warna	P	CT	P	CM
	Aroma	BKA	BKAE	BKAB	BKAEB
	Bentuk	K	K	K	K
3	Warna	P	CT	P	CM
	Aroma	BKA	BKAE	BKAB	BKAEB
	Bentuk	K	K	K	K
4	Warna	P	CT	P	CM
	Aroma	BKA	BKAE	BKAB	BKAEB
	Bentuk	K	K	K	K
5	Warna	P	CT	P	CM
	Aroma	BKA	BKAE	BKAB	BKAEB
	Bentuk	K	K	K	K
	Warna	P	CT	P	CM
6	Aroma	BKA	BKAE	BKAB	BKAEB
	Bentuk	K	K	K	K

Lampiran 17 Evaluasi Homgenitas Stabilitas Cycling Test


Formula 0


Formula 1


Formula 2


Formula 3

Siklus	Batch 1				Batch 2				Batch 3			
	F0	F1	F2	F3	F0	F1	F2	F3	F0	F1	F2	F3
1	H	H	H	H	H	H	H	H	H	H	H	H
1	H	H	H	H	H	H	H	H	H	H	H	H
1	H	H	H	H	H	H	H	H	H	H	H	H
2	H	H	H	H	H	H	H	H	H	H	H	H
2	H	H	H	H	H	H	H	H	H	H	H	H
2	H	H	H	H	H	H	H	H	H	H	H	H
3	H	H	H	H	H	H	H	H	H	H	H	H
3	H	H	H	H	H	H	H	H	H	H	H	H
3	H	H	H	H	H	H	H	H	H	H	H	H
4	H	H	H	H	H	H	H	H	H	H	H	H
4	H	H	H	H	H	H	H	H	H	H	H	H
4	H	H	H	H	H	H	H	H	H	H	H	H
5	H	H	H	H	H	H	H	H	H	H	H	H
5	H	H	H	H	H	H	H	H	H	H	H	H
5	H	H	H	H	H	H	H	H	H	H	H	H
6	H	H	H	H	H	H	H	H	H	H	H	H
6	H	H	H	H	H	H	H	H	H	H	H	H
6	H	H	H	H	H	H	H	H	H	H	H	H

Lampiran 18 Evaluasi pH Stabilitas Cycling Test

Formula 0

Formula 1

Formula 2

Formula 3

Formula	Siklus ke-	Batch			Rata-rata±SD
		1	2	3	
F0	1	6,88	6,94	6,62	6,81±0,17
	2	6,31	5,08	6,07	5,82±0,65
	3	6,80	6,75	6,91	5,82±0,08
	4	6,76	6,20	6,29	6,42±0,30
	5	6,82	6,71	6,65	6,72±0,09
	6	6,79	6,66	6,62	6,69±0,09
F1	1	5,30	5,26	5,75	5,44±0,27
	2	4,36	5,43	4,65	4,85±0,51
	3	4,84	5,00	5,33	5,06±0,25
	4	5,04	4,81	5,25	5,03±0,22
	5	4,69	4,81	4,98	4,83±0,14
	6	4,70	4,79	4,99	4,83±0,15
F2	1	6,34	7,12	6,92	5,79±0,41
	2	5,98	5,99	6,06	6,01±0,04
	3	7,16	6,87	6,94	6,99±0,15
	4	6,87	6,49	6,16	6,51±0,35
	5	6,58	6,65	6,75	6,66±0,08
	6	6,58	6,65	6,73	6,65±0,08
F3	1	5,77	6,13	6,10	6,00±0,20
	2	5,00	5,28	5,26	5,18±0,16
	3	6,30	6,10	5,62	6,01±0,35
	4	6,15	5,74	5,69	5,86±0,25
	5	5,30	5,78	5,71	5,60±0,26
	6	5,30	5,78	5,73	5,61±0,26

Lampiran 19 Hasil Analisis Statistic pH Krim Tabir Surya

Uji normalitas

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	siklus	Statistic	df	Sig.	Statistic	df	Sig.
pH_F0	1	.319	3	.	.885	3	.339
	2	.300	3	.	.913	3	.427
	3	.263	3	.	.955	3	.593
	4	.330	3	.	.867	3	.287
	5	.243	3	.	.972	3	.679
	6	.299	3	.	.915	3	.433
pH_F1	1	.359	3	.	.811	3	.141
	2	.316	3	.	.890	3	.355
	3	.256	3	.	.961	3	.622
	4	.179	3	.	.999	3	.950
	5	.212	3	.	.990	3	.811
	6	.264	3	.	.954	3	.588
pH_F2	1	.289	3	.	.927	3	.476
	2	.343	3	.	.842	3	.220
	3	.296	3	.	.918	3	.446
	4	.185	3	.	.998	3	.922
	5	.213	3	.	.990	3	.806
	6	.184	3	.	.999	3	.927
pH_F3	1	.358	3	.	.812	3	.144
	2	.362	3	.	.803	3	.122
	3	.272	3	.	.947	3	.554
	4	.349	3	.	.830	3	.189
	5	.336	3	.	.857	3	.259
	6	.351	3	.	.827	3	.181

a. Lilliefors Significance Correction

Uji homogenitas

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
pH_F0	Based on Mean	3.450	5	12	.037
	Based on Median	.442	5	12	.811
	Based on Median and with adjusted df	.442	5	5.154	.804
	Based on trimmed mean	2.983	5	12	.056
pH_F1	Based on Mean	2.410	5	12	.098
	Based on Median	.433	5	12	.817
	Based on Median and with adjusted df	.433	5	5.144	.810
	Based on trimmed mean	2.169	5	12	.126
pH_F2	Based on Mean	3.110	5	12	.050
	Based on Median	1.249	5	12	.346
	Based on Median and with adjusted df	1.249	5	4.602	.414
	Based on trimmed mean	2.960	5	12	.057
pH_F3	Based on Mean	.729	5	12	.615
	Based on Median	.138	5	12	.980
	Based on Median and with adjusted df	.138	5	11.038	.980
	Based on trimmed mean	.643	5	12	.672

Uji one way anova

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
pH_F0	Between Groups	1.053	5	.211	7.908	.002
	Within Groups	.320	12	.027		
	Total	1.373	17			
pH_F1	Between Groups	.835	5	.167	2.036	.145
	Within Groups	.985	12	.082		
	Total	1.820	17			
pH_F2	Between Groups	1.658	5	.332	6.064	.005
	Within Groups	.656	12	.055		
	Total	2.314	17			
pH_F3	Between Groups	1.499	5	.300	4.648	.014
	Within Groups	.774	12	.065		
	Total	2.273	17			

Uji post hoc

Formula 0

Games-Howell	1	2	.66000*	.12565	.039	.0482	1.2718
		3	-.00667	.10899	1.000	-.6455	.6322
		4	.39667	.19947	.489	-.6954	1.4888
		5	.08667	.11010	.952	-.5447	.7180
		6	.12333	.11081	.852	-.5039	.7505
	2	1	-.66000*	.12565	.039	-1.2718	-.0482
		3	-.66667*	.09153	.020	-1.1549	-.1784
		4	-.26333	.19050	.742	-1.4102	.8835
		5	-.57333*	.09286	.030	-1.0588	-.0879
		6	-.53667*	.09369	.037	-1.0209	-.0524
	3	1	.00667	.10899	1.000	-.6322	.6455
		2	.66667*	.09153	.020	.1784	1.1549
		4	.40333	.17994	.444	-.8839	1.6906
		5	.09333	.06864	.749	-.2326	.4193
		6	.13000	.06976	.521	-.2020	.4620
	4	1	-.39667	.19947	.489	-1.4888	.6954
		2	.26333	.19050	.742	-.8835	1.4102
		3	-.40333	.17994	.444	-1.6906	.8839
		5	-.31000	.18062	.613	-1.5846	.9646
		6	-.27333	.18105	.693	-1.5402	.9936
	5	1	-.08667	.11010	.952	-.7180	.5447
		2	.57333*	.09286	.030	.0879	1.0588
		3	-.09333	.06864	.749	-.4193	.2326
		4	.31000	.18062	.613	-.9646	1.5846
		6	.03667	.07149	.993	-.3025	.3759
	6	1	-.12333	.11081	.852	-.7505	.5039
		2	.53667*	.09369	.037	.0524	1.0209
		3	-.13000	.06976	.521	-.4620	.2020
		4	.27333	.18105	.693	-.9936	1.5402
		5	-.03667	.07149	.993	-.3759	.3025

Formula 1

Games-Howell	1	2	.59000	.33579	.581	-1.3003	2.4803
		3	.38000	.21328	.556	-.6353	1.3953
		4	.40333	.20205	.470	-.5775	1.3842
		5	.61000	.17820	.175	-.3882	1.6082
		6	.61000	.17895	.175	-.3846	1.6046
	2	1	-.59000	.33579	.581	-2.4803	1.3003
		3	-.21000	.32998	.979	-2.1360	1.7160
		4	-.18667	.32283	.985	-2.1730	1.7996
		5	.02000	.30847	1.000	-2.1635	2.2035
		6	.02000	.30890	1.000	-2.1557	2.1957
	3	1	-.38000	.21328	.556	-1.3953	.6353
		2	.21000	.32998	.979	-1.7160	2.1360
		4	.02333	.19224	1.000	-.8961	.9428
		5	.23000	.16700	.743	-.6729	1.1329
		6	.23000	.16780	.745	-.6704	1.1304

4	1	-.40333	.20205	.470	-1.3842	.5775
	2	.18667	.32283	.985	-1.7996	2.1730
	3	-.02333	.19224	1.000	-.9428	.8961
	5	.20667	.15239	.751	-.5778	.9911
	6	.20667	.15326	.755	-.5771	.9905
5	1	-.61000	.17820	.175	-1.6082	.3882
	2	-.02000	.30847	1.000	-2.2035	2.1635
	3	-.23000	.16700	.743	-1.1329	.6729
	4	-.20667	.15239	.751	-.9911	.5778
	6	.00000	.12009	1.000	-.5696	.5696
6	1	-.61000	.17895	.175	-1.6046	.3846
	2	-.02000	.30890	1.000	-2.1957	2.1557
	3	-.23000	.16780	.745	-1.1304	.6704
	4	-.20667	.15326	.755	-.9905	.5771
	5	.00000	.12009	1.000	-.5696	.5696

Formula 2

Games-Howell	1	2	.78333	.23525	.256	-1.1179	2.6846
		3	-.19667	.24969	.950	-1.8160	1.4226
		4	.28667	.31111	.922	-1.2022	1.7755
		5	.13333	.23905	.986	-1.6713	1.9380
		6	.14000	.23788	.982	-1.6922	1.9722
	2	1	-.78333	.23525	.256	-2.6846	1.1179
		3	-.98000*	.09092	.019	-1.6208	-.3392
		4	-.49667	.20667	.418	-2.1541	1.1608
		5	-.65000*	.05538	.007	-.9667	-.3333
		6	-.64333*	.05011	.004	-.9147	-.3719
	3	1	.19667	.24969	.950	-1.4226	1.8160
		2	.98000*	.09092	.019	.3392	1.6208
		4	.48333	.22296	.446	-.8913	1.8580
		5	.33000	.10033	.187	-.2197	.8797
		6	.33667	.09752	.179	-.2277	.9011

4	1	-.28667	.31111	.922	-1.7755	1.2022
	2	.49667	.20667	.418	-1.1608	2.1541
	3	-.48333	.22296	.446	-1.8580	.8913
	5	-.15333	.21098	.961	-1.7066	1.3999
	6	-.14667	.20966	.966	-1.7290	1.4356
5	1	-.13333	.23905	.986	-1.9380	1.6713
	2	.65000*	.05538	.007	.3333	.9667
	3	-.33000	.10033	.187	-.8797	.2197
	4	.15333	.21098	.961	-1.3999	1.7066
	6	.00667	.06566	1.000	-.3075	.3208
6	1	-.14000	.23788	.982	-1.9722	1.6922
	2	.64333*	.05011	.004	.3719	.9147
	3	-.33667	.09752	.179	-.9011	.2277
	4	.14667	.20966	.966	-1.4356	1.7290
	5	-.00667	.06566	1.000	-.3208	.3075

Formula 3

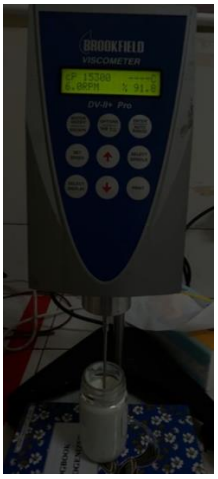
Games-Howell	1	2	.82000*	.14640	.032	.1038	1.5362
		3	-.00667	.23240	1.000	-1.2736	1.2602
		4	.14000	.18583	.962	-.7665	1.0465
		5	.40333	.18897	.421	-.5246	1.3313
		6	.39667	.19108	.443	-.5460	1.3393
	2	1	-.82000*	.14640	.032	-1.5362	-.1038
		3	-.82667	.22101	.158	-2.1628	.5094
		4	-.68000	.17137	.111	-1.5848	.2248
		5	-.41667	.17477	.358	-1.3493	.5159
		6	-.42333	.17704	.358	-1.3747	.5281
	3	1	.00667	.23240	1.000	-1.2602	1.2736
		2	.82667	.22101	.158	-.5094	2.1628
		4	.14667	.24889	.986	-1.0979	1.3913
		5	.41000	.25124	.625	-.8364	1.6564
		6	.40333	.25283	.642	-.8448	1.6515
	4	1	-.14000	.18583	.962	-1.0465	.7665
		2	.68000	.17137	.111	-.2248	1.5848
		3	-.14667	.24889	.986	-1.3913	1.0979
		5	.26333	.20891	.794	-.7278	1.2544
		6	.25667	.21082	.813	-.7441	1.2575
	5	1	-.40333	.18897	.421	-1.3313	.5246
		2	.41667	.17477	.358	-.5159	1.3493
		3	-.41000	.25124	.625	-1.6564	.8364
		4	-.26333	.20891	.794	-1.2544	.7278
		6	-.00667	.21359	1.000	-1.0197	1.0064
	6	1	-.39667	.19108	.443	-1.3393	.5460
		2	.42333	.17704	.358	-.5281	1.3747
		3	-.40333	.25283	.642	-1.6515	.8448
		4	-.25667	.21082	.813	-1.2575	.7441
		5	.00667	.21359	1.000	-1.0064	1.0197

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

Lampiran 20 Evaluasi Viskositas Stabilitas Cycling Test


Formula 0


Formula 1


Formula 2


Formula 3

Formula	Siklus ke-	Batch			Rata-rata±SD
		1	2	3	
F0	1	15472	15933	15789	15731±236
	2	15739	15895	15839	15824±79
	3	15889	15611	15200	15567±347
	4	15722	16000	16095	15939±367
	5	15955	15855	15794	15868±81
	6	16033	15072	16261	15789±631
F1	1	16039	15083	15539	15554±478
	2	16361	15800	16133	16098±282
	3	15945	15383	15833	15720±297
	4	16428	15989	16472	16296±267
	5	16078	15955	16011	16015±61
	6	16583	16133	16550	16422±251
F2	1	16050	15233	15800	15694±419
	2	15844	14583	15195	15207631
	3	15778	16100	16270	16049±250
	4	15744	15305	15094	15381±331
	5	15439	16172	15017	15543±584
	6	16117	16044	15511	15891±331
F3	1	15478	1522	14728	15143±381
	2	15506	15100	15756	15454±331
	3	15678	15989	15066	15911±206
	4	15678	15228	15389	15431±228
	5	15572	15428	15511	15504±72
	6	16189	16995	15394	15859±414

Lampiran 21 Hasil Analisis Statistic Viskositas Krim Tabir Surya

Uji normalitas

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	siklus	Statistic	df	Sig.	Statistic	df	Sig.
Viskositas_F0	1	.263	3	.	.955	3	.593
	2	.240	3	.	.974	3	.692
	3	.218	3	.	.988	3	.788
	4	.290	3	.	.926	3	.473
	5	.230	3	.	.981	3	.735
	6	.317	3	.	.888	3	.347
Viskositas_F1	1	.179	3	.	.999	3	.949
	2	.216	3	.	.988	3	.794
	3	.314	3	.	.892	3	.362
	4	.356	3	.	.818	3	.158
	5	.190	3	.	.997	3	.901
	6	.362	3	.	.805	3	.126
Viskositas_F2	1	.266	3	.	.952	3	.579
	2	.177	3	.	1.000	3	.968
	3	.247	3	.	.969	3	.663
	4	.257	3	.	.961	3	.618
	5	.237	3	.	.976	3	.705
	6	.345	3	.	.839	3	.211
Viskositas_F3	1	.249	3	.	.968	3	.654
	2	.229	3	.	.981	3	.739
	3	.315	3	.	.892	3	.360
	4	.241	3	.	.974	3	.689
	5	.207	3	.	.992	3	.832
	6	.295	3	.	.920	3	.451

a. Lilliefors Significance Correction

Uji homogenitas

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
Viskositas_F0	Based on Mean	4.176	5	12	.020
	Based on Median	.879	5	12	.524
	Based on Median and with adjusted df	.879	5	3.604	.571
	Based on trimmed mean	3.792	5	12	.027
Viskositas_F1	Based on Mean	1.876	5	12	.172
	Based on Median	.879	5	12	.524
	Based on Median and with adjusted df	.879	5	7.648	.537
	Based on trimmed mean	1.806	5	12	.186
Viskositas_F2	Based on Mean	.620	5	12	.687
	Based on Median	.386	5	12	.849
	Based on Median and with adjusted df	.386	5	9.785	.848
	Based on trimmed mean	.605	5	12	.698
Viskositas_F3	Based on Mean	1.567	5	12	.242
	Based on Median	.504	5	12	.768
	Based on Median and with adjusted df	.504	5	7.832	.766
	Based on trimmed mean	1.467	5	12	.271

Uji one way anova

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
Viskositas_F0	Between Groups	248113.333	5	49622.667	.477	.787
	Within Groups	1248816.667	12	104068.056		
	Total	1496930.000	17			
Viskositas_F1	Between Groups	1442717.833	5	288543.567	3.843	.026
	Within Groups	900910.667	12	75075.889		
	Total	2343628.500	17			
Viskositas_F2	Between Groups	1488497.111	5	297699.422	1.493	.263
	Within Groups	2392595.333	12	199382.944		
	Total	3881092.444	17			
Viskositas_F3	Between Groups	1251879.611	5	250375.922	2.855	.063
	Within Groups	1052362.667	12	87696.889		
	Total	2304242.278	17			

Uji post hoc

Formula 0

Games-Howell	1	2	-93.00000	143.60788	.976	-1060.1354	874.1354
		3	164.66667	242.05968	.974	-1069.5220	1398.8553
		4	-207.66667	176.25487	.829	-1060.4538	645.1205
		5	-136.66667	144.02700	.906	-1097.5686	824.2353
		6	-57.33333	388.94244	1.000	-2579.1814	2464.5147
	2	1	93.00000	143.60788	.976	-874.1354	1060.1354
		3	257.66667	205.26379	.795	-1269.9774	1785.3107
		4	-114.66667	120.85575	.907	-872.8673	643.5340
		5	-43.66667	65.45312	.977	-354.1877	266.8544
		6	35.66667	367.17374	1.000	-2905.0312	2976.3645
	3	1	-164.66667	242.05968	.974	-1398.8553	1069.5220
		2	-257.66667	205.26379	.795	-1785.3107	1269.9774
		4	-372.33333	229.29409	.635	-1633.6770	889.0104
		5	-301.33333	205.55724	.712	-1822.6196	1219.9530
		6	-222.00000	415.67562	.990	-2525.7638	2081.7638
	4	1	207.66667	263.39837	1.000	-753.4448	1168.7782
		2	114.66667	263.39837	1.000	-846.4448	1075.7782
		3	372.33333	263.39837	1.000	-588.7782	1333.4448
		5	71.00000	263.39837	1.000	-890.1115	1032.1115
		6	150.33333	263.39837	1.000	-810.7782	1111.4448
	5	1	136.66667	263.39837	1.000	-824.4448	1097.7782
		2	43.66667	263.39837	1.000	-917.4448	1004.7782
		3	301.33333	263.39837	1.000	-659.7782	1262.4448
		4	-71.00000	263.39837	1.000	-1032.1115	890.1115
		6	79.33333	263.39837	1.000	-881.7782	1040.4448
	6	1	57.33333	263.39837	1.000	-903.7782	1018.4448
		2	-35.66667	263.39837	1.000	-996.7782	925.4448
		3	222.00000	263.39837	1.000	-739.1115	1183.1115
		4	-150.33333	263.39837	1.000	-1111.4448	810.7782
		5	-79.33333	263.39837	1.000	-1040.4448	881.7782

Formula 1

Games-Howell	1	2	-544.33333	320.54346	.602	-2269.1391	1180.4724
		3	-316.66667	278.58372	.840	-2535.2825	1901.9491
		4	-742.66667	316.21178	.374	-2483.0298	997.6965
		5	-461.00000	278.35090	.643	-2685.9405	1763.9405
		6	-868.33333	311.74687	.275	-2630.0677	893.4010
	2	1	544.33333	320.54346	.602	-1180.4724	2269.1391
		3	227.66667	167.11307	.753	-1014.7627	1470.0961
		4	-198.33333	224.29395	.932	-1263.6831	867.0165
		5	83.33333	166.72466	.991	-1167.6900	1334.3567
		6	-324.00000	217.95412	.690	-1365.1798	717.1798
	3	1	316.66667	278.58372	.840	-1901.9491	2535.2825
		2	-227.66667	167.11307	.753	-1470.0961	1014.7627
		4	-426.00000	158.64601	.343	-1592.2987	740.2987
		5	-144.33333	51.55472	.233	-389.1256	100.4590
		6	-551.66667	149.54858	.197	-1635.7548	532.4215

	4	1	742.66667	316.21178	.374	-997.6965	2483.0298
		2	198.33333	224.29395	.932	-867.0165	1263.6831
		3	426.00000	158.64601	.343	-740.2987	1592.2987
		5	281.66667	158.23681	.594	-893.3667	1456.7001
		6	-125.66667	211.53198	.986	-1130.8941	879.5608
	5	1	461.00000	278.35090	.643	-1763.9405	2685.9405
		2	-83.33333	166.72466	.991	-1334.3567	1167.6900
		3	144.33333	51.55472	.233	-100.4590	389.1256
		4	-281.66667	158.23681	.594	-1456.7001	893.3667
		6	-407.33333	149.11442	.334	-1500.2732	685.6065
	6	1	868.33333	311.74687	.275	-893.4010	2630.0677
		2	324.00000	217.95412	.690	-717.1798	1365.1798
		3	551.66667	149.54858	.197	-532.4215	1635.7548
		4	125.66667	211.53198	.986	-879.5608	1130.8941
		5	407.33333	149.11442	.334	-685.6065	1500.2732

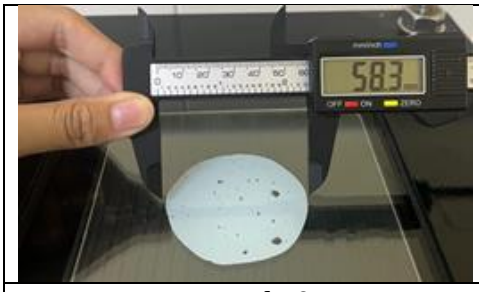
Formula 2

Games-Howell	1	2	487.00000	436.99377	.853	-1760.4143	2734.4143
		3	-355.00000	281.47686	.793	-1862.5233	1152.5233
		4	313.33333	308.33063	.891	-1190.4558	1817.1224
		5	151.66667	415.05528	.998	-1929.1792	2232.5125
		6	-196.33333	308.05230	.981	-1699.5901	1306.9234
	2	1	-487.00000	436.99377	.853	-2734.4143	1760.4143
		3	-842.00000	391.61446	.455	-3326.0778	1642.0778
		4	-173.66667	411.33982	.996	-2495.7796	2148.4462
		5	-335.33333	496.39053	.976	-2696.5532	2025.8865
		6	-683.33333	411.13123	.621	-3006.5780	1639.9113
	3	1	355.00000	281.47686	.793	-1152.5233	1862.5233
		2	842.00000	391.61446	.455	-1642.0778	3326.0778
		4	668.33333	239.72090	.245	-515.7378	1852.4045
		5	506.66667	366.97305	.743	-1752.4237	2765.7570
		6	158.66667	239.36281	.977	-1022.8780	1340.2114
	4	1	-313.33333	308.33063	.891	-1817.1224	1190.4558
		2	173.66667	411.33982	.996	-2148.4462	2495.7796
		3	-668.33333	239.72090	.245	-1852.4045	515.7378
		5	-161.66667	387.95332	.997	-2282.9531	1959.6198
		6	-509.66667	270.43134	.511	-1792.1013	772.7679
	5	1	-151.66667	415.05528	.998	-2232.5125	1929.1792
		2	335.33333	496.39053	.976	-2025.8865	2696.5532
		3	-506.66667	366.97305	.743	-2765.7570	1752.4237
		4	161.66667	387.95332	.997	-1959.6198	2282.9531
		6	-348.00000	387.73215	.925	-2470.1394	1774.1394
	6	1	196.33333	308.05230	.981	-1306.9234	1699.5901
		2	683.33333	411.13123	.621	-1639.9113	3006.5780
		3	-158.66667	239.36281	.977	-1340.2114	1022.8780
		4	509.66667	270.43134	.511	-772.7679	1792.1013
		5	348.00000	387.73215	.925	-1774.1394	2470.1394

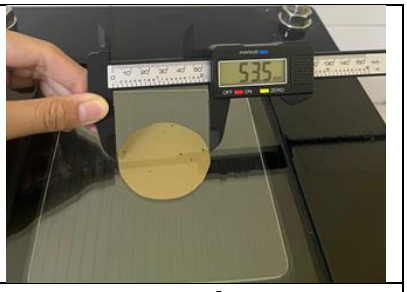
Formula 3

Games-Howell	1	2	-311.33333	291.52320	.873	-1708.3875	1085.7209
		3	-768.33333	250.02955	.222	-2165.3314	628.6647
		4	-289.00000	256.47330	.848	-1661.5329	1083.5329
		5	-361.00000	224.03100	.657	-2080.8809	1358.8809
		6	-716.66667	325.14390	.392	-2264.3036	830.9703
	2	1	311.33333	291.52320	.873	-1085.7209	1708.3875
		3	-457.00000	224.95259	.469	-1643.5042	729.5042
		4	22.33333	232.09361	1.000	-1156.1645	1200.8311
		5	-49.66667	195.64963	1.000	-1517.6760	1418.3427
		6	-405.33333	306.28001	.766	-1896.2697	1085.6030
	3	1	768.33333	250.02955	.222	-628.6647	2165.3314
		2	457.00000	224.95259	.469	-729.5042	1643.5042
		4	479.33333	177.19042	.254	-365.8024	1324.4690
		5	407.33333	125.72899	.233	-425.5715	1240.2382
		6	51.66667	267.08883	1.000	-1494.5336	1597.8669
4	1		289.00000	256.47330	.848	-1083.5329	1661.5329
	2		-22.33333	232.09361	1.000	-1200.8311	1156.1645
	3		-479.33333	177.19042	.254	-1324.4690	365.8024
	5		-72.00000	138.09980	.990	-1018.6041	874.6041
	6		-427.66667	273.13041	.661	-1940.5079	1085.1746
5	1		361.00000	224.03100	.657	-1358.8809	2080.8809
	2		49.66667	195.64963	1.000	-1418.3427	1517.6760
	3		-407.33333	125.72899	.233	-1240.2382	425.5715
	4		72.00000	138.09980	.990	-874.6041	1018.6041
	6		-355.66667	242.92294	.714	-2241.6099	1530.2766
6	1		716.66667	325.14390	.392	-830.9703	2264.3036
	2		405.33333	306.28001	.766	-1085.6030	1896.2697
	3		-51.66667	267.08883	1.000	-1597.8669	1494.5336
	4		427.66667	273.13041	.661	-1085.1746	1940.5079
	5		355.66667	242.92294	.714	-1530.2766	2241.6099

Lampiran 22 Evaluasi Daya Sebar Stabilitas Cycling Tes

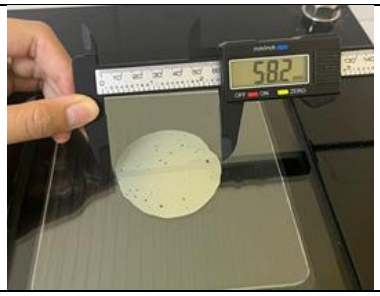


Formula 0



Formula 1

Formula 2



Formula 3

Formula	Siklus ke-	Batch			Rata-rata±SD
		1	2	3	
F0	1	5,81	5,87	5,53	5,74±0,18
	2	5,83	6,22	5,37	5,81±0,43
	3	5,98	6,10	5,19	5,76±0,49
	4	6,24	5,58	5,96	5,94±0,33
	5	5,68	5,21	5,32	5,40±0,25
	6	5,93	5,91	5,46	5,77±0,27
F1	1	5,76	5,99	5,94	5,90±0,12
	2	5,82	5,86	5,78	5,82±0,04
	3	5,79	6,31	6,05	6,05±0,26
	4	5,62	5,67	5,34	5,54±0,18
	5	6,09	5,43	5,93	5,82±0,34
	6	5,62	6,11	5,45	5,83±0,34
F2	1	5,70	6,22	6,76	5,23±0,53
	2	5,99	5,43	6,77	6,06±0,67
	3	5,97	6,13	6,76	6,29±0,42
	4	5,56	5,48	5,97	5,67±0,35
	5	5,41	5,28	5,06	5,25±0,18
	6	5,58	5,44	5,74	5,59±0,15
F3	1	5,55	6,18	5,83	5,85±0,32
	2	6,56	6,38	5,73	6,22±0,44
	3	5,75	6,24	5,62	5,87±0,33
	4	5,62	6,16	5,75	5,64±0,28
	5	5,67	6,04	5,32	5,68±0,36
	6	5,77	5,78	5,46	5,67±0,18

Lampiran 23 Hasil Analisis Statistic Daya Sebar Krim Tabir Surya

Uji normalitas

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	siklus	Statistic	df	Sig.	Statistic	df	Sig.
Dayasebar_F0	1	.324	3	.	.878	3	.317
	2	.189	3	.	.998	3	.909
	3	.341	3	.	.847	3	.232
	4	.207	3	.	.992	3	.833
	5	.299	3	.	.914	3	.431
	6	.372	3	.	.782	3	.072
Dayasebar_F1	1	.307	3	.	.904	3	.398
	2	.175	3	.	1.000	3	1.000
	3	.175	3	.	1.000	3	1.000
	4	.333	3	.	.861	3	.269
	5	.296	3	.	.919	3	.448
	6	.289	3	.	.927	3	.479
Dayasebar_F2	1	.176	3	.	1.000	3	.979
	2	.210	3	.	.991	3	.820
	3	.313	3	.	.894	3	.368
	4	.329	3	.	.869	3	.292
	5	.234	3	.	.978	3	.719
	6	.184	3	.	.999	3	.927
Dayalsebar_F3	1	.196	3	.	.996	3	.878
	2	.307	3	.	.903	3	.397
	3	.310	3	.	.899	3	.382
	4	.296	3	.	.918	3	.444
	5	.177	3	.	1.000	3	.969
	6	.375	3	.	.773	3	.052

a. Lilliefors Significance Correction

Uji homogenitas

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
Dayasebar_F0	Based on Mean	.967	5	12	.475
	Based on Median	.261	5	12	.926
	Based on Median and with adjusted df	.261	5	7.352	.922
	Based on trimmed mean	.893	5	12	.516
Dayasebar_F1	Based on Mean	2.231	5	12	.118
	Based on Median	.629	5	12	.681
	Based on Median and with adjusted df	.629	5	7.159	.685
	Based on trimmed mean	2.072	5	12	.140
Dayasebar_F2	Based on Mean	1.429	5	12	.283
	Based on Median	.811	5	12	.564
	Based on Median and with adjusted df	.811	5	7.557	.575
	Based on trimmed mean	1.388	5	12	.296
Dayalsebar_F3	Based on Mean	.519	5	12	.757
	Based on Median	.182	5	12	.964
	Based on Median and with adjusted df	.182	5	9.538	.963
	Based on trimmed mean	.487	5	12	.780

Uji one way anova

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
Dayasebar_F0	Between Groups	.460	5	.092	.789	.577
	Within Groups	1.398	12	.117		
	Total	1.858	17			
Dayasebar_F1	Between Groups	.430	5	.086	1.468	.271
	Within Groups	.703	12	.059		
	Total	1.133	17			
Dayasebar_F2	Between Groups	2.519	5	.504	2.932	.059
	Within Groups	2.062	12	.172		
	Total	4.582	17			
Dayalsebar_F3	Between Groups	.606	5	.121	1.138	.393
	Within Groups	1.279	12	.107		
	Total	1.885	17			

Uji post hoc

Formula 0

Games-Howell	1	2	-.07000	.26706	1.000	-1.7157	1.5757
		3	-.02000	.30407	1.000	-2.0045	1.9645
		4	-.19000	.21807	.932	-1.4000	1.0200
		5	.33333	.17641	.515	-.5431	1.2098
		6	-.03000	.18580	1.000	-.9762	.9162
	2	1	.07000	.26706	1.000	-1.5757	1.7157
		3	.05000	.37659	1.000	-1.7572	1.8572
		4	-.12000	.31132	.998	-1.6447	1.4047
		5	.40333	.28371	.723	-1.1364	1.9430
		6	.04000	.28964	1.000	-1.4837	1.5637
	3	1	.02000	.30407	1.000	-1.9645	2.0045
		2	-.05000	.37659	1.000	-1.8572	1.7572
		4	-.17000	.34359	.993	-1.9313	1.5913
		5	.35333	.31878	.854	-1.4895	2.1962
		6	-.01000	.32407	1.000	-1.8225	1.8025
	4	1	.19000	.21807	.932	-1.0200	1.4000
		2	.12000	.31132	.998	-1.4047	1.6447
		3	.17000	.34359	.993	-1.5913	1.9313
		5	.52333	.23816	.402	-.6581	1.7048
		6	.16000	.24520	.979	-1.0324	1.3524
	5	1	-.33333	.17641	.515	-1.2098	.5431
		2	-.40333	.28371	.723	-1.9430	1.1364
		3	-.35333	.31878	.854	-2.1962	1.4895
		4	-.52333	.23816	.402	-1.7048	.6581
		6	-.36333	.20902	.575	-1.3578	.6311
	6	1	.03000	.18580	1.000	-.9162	.9762
		2	-.04000	.28964	1.000	-1.5637	1.4837
		3	.01000	.32407	1.000	-1.8025	1.8225
		4	-.16000	.24520	.979	-1.3524	1.0324
		5	.36333	.20902	.575	-.6311	1.3578

Formula 1

Games-Howell	1	2	.07667	.07356	.875	-.4209	.5742
		3	-.15333	.16556	.915	-1.1377	.8310
		4	.35333	.12419	.241	-.2799	.9866
		5	.08000	.21069	.998	-1.3164	1.4764
		6	.17000	.20981	.945	-1.2184	1.5584
	2	1	-.07667	.07356	.875	-.5742	.4209
		3	-.23000	.15188	.695	-1.4257	.9657
		4	.27667	.10525	.357	-.5087	1.0620
		5	.00333	.20011	1.000	-1.6071	1.6137
		6	.09333	.19919	.993	-1.5092	1.6959
	3	1	.15333	.16556	.915	-.8310	1.1377
		2	.23000	.15188	.695	-.9657	1.4257
		4	.50667	.18187	.252	-.4189	1.4323
		5	.23333	.24909	.916	-.9963	1.4629
		6	.32333	.24835	.775	-.9011	1.5478

	4	1	-.35333	.12419	.241	-.9866	.2799
		2	-.27667	.10525	.357	-1.0620	.5087
		3	-.50667	.18187	.252	-1.4323	.4189
		5	-.27333	.22373	.809	-1.5459	.9992
		6	-.18333	.22291	.944	-1.4487	1.0821
	5	1	-.08000	.21069	.998	-1.4764	1.3164
		2	-.00333	.20011	1.000	-1.6137	1.6071
		3	-.23333	.24909	.916	-1.4629	.9963
		4	.27333	.22373	.809	-.9992	1.5459
		6	.09000	.28046	.999	-1.2400	1.4200
	6	1	-.17000	.20981	.945	-1.5584	1.2184
		2	-.09333	.19919	.993	-1.6959	1.5092
		3	-.32333	.24835	.775	-1.5478	.9011
		4	.18333	.22291	.944	-1.0821	1.4487
		5	-.09000	.28046	.999	-1.4200	1.2400

Formula 2

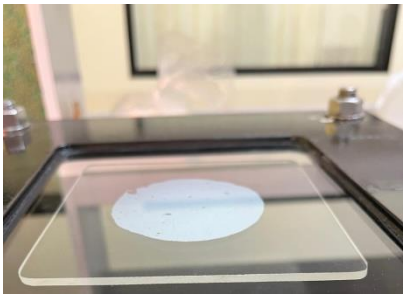
Games-Howell	1	2	.16333	.49459	.999	-2.2522	2.5788
		3	-.06000	.38960	1.000	-1.9625	1.8425
		4	.55667	.34158	.636	-1.4202	2.5335
		5	.97667	.32261	.267	-1.1987	3.1521
		6	.64000	.31805	.511	-1.6119	2.8919
	2	1	-.16333	.49459	.999	-2.5788	2.2522
		3	-.22333	.45730	.993	-2.6352	2.1885
		4	.39333	.41715	.909	-2.2673	3.0540
		5	.81333	.40176	.509	-2.0856	3.7123
		6	.47667	.39811	.817	-2.4986	3.4520
	3	1	.06000	.38960	1.000	-1.8425	1.9625
		2	.22333	.45730	.993	-2.1885	2.6352
		4	.61667	.28492	.422	-.8779	2.1112
		5	1.03667	.26187	.143	-.5815	2.6548
		6	.70000	.25623	.315	-.9849	2.3849

	4	1	-.55667	.34158	.636	-2.5335	1.4202
		2	-.39333	.41715	.909	-3.0540	2.2673
		3	-.61667	.28492	.422	-2.1112	.8779
		5	.42000	.18294	.376	-.5163	1.3563
		6	.08333	.17477	.994	-.8697	1.0364
	5	1	-.97667	.32261	.267	-3.1521	1.1987
		2	-.81333	.40176	.509	-3.7123	2.0856
		3	-1.03667	.26187	.143	-2.6548	.5815
		4	-.42000	.18294	.376	-1.3563	.5163
		6	-.33667	.13396	.302	-.9810	.3077
	6	1	-.64000	.31805	.511	-2.8919	1.6119
		2	-.47667	.39811	.817	-3.4520	2.4986
		3	-.70000	.25623	.315	-2.3849	.9849
		4	-.08333	.17477	.994	-1.0364	.8697
		5	.33667	.13396	.302	-.3077	.9810

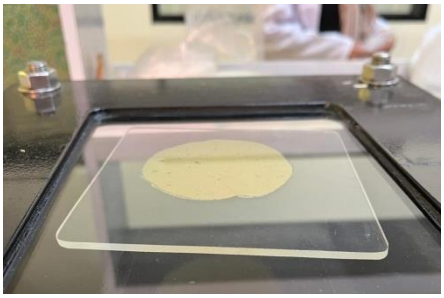
Formula 3

Games-Howell	1	2	-.37000	.31106	.824	-1.9250	1.1850
		3	-.01667	.26238	1.000	-1.2618	1.2284
		4	.01000	.24431	1.000	-1.1565	1.1765
		5	.17667	.27645	.981	-1.1463	1.4997
		6	.18333	.21034	.933	-.9594	1.3260
	2	1	.37000	.31106	.824	-1.1850	1.9250
		3	.35333	.31493	.851	-1.2049	1.9116
		4	.38000	.30004	.791	-1.1789	1.9389
		5	.54667	.32673	.605	-1.0331	2.1265
		6	.55333	.27309	.492	-1.1452	2.2519
	3	1	.01667	.26238	1.000	-1.2284	1.2618
		2	-.35333	.31493	.851	-1.9116	1.2049
		4	.02667	.24922	1.000	-1.1690	1.2223
		5	.19333	.28079	.974	-1.1448	1.5315
		6	.20000	.21602	.917	-.9908	1.3908
	4	1	-.01000	.24431	1.000	-1.1765	1.1565
		2	-.38000	.30004	.791	-1.9389	1.1789
		3	-.02667	.24922	1.000	-1.2223	1.1690
		5	.16667	.26399	.981	-1.1245	1.4578
		6	.17333	.19368	.927	-.8330	1.1796
	5	1	-.17667	.27645	.981	-1.4997	1.1463
		2	-.54667	.32673	.605	-2.1265	1.0331
		3	-.19333	.28079	.974	-1.5315	1.1448
		4	-.16667	.26399	.981	-1.4578	1.1245
		6	.00667	.23290	1.000	-1.3306	1.3439
	6	1	-.18333	.21034	.933	-1.3260	.9594
		2	-.55333	.27309	.492	-2.2519	1.1452
		3	-.20000	.21602	.917	-1.3908	.9908
		4	-.17333	.19368	.927	-1.1796	.8330
		5	-.00667	.23290	1.000	-1.3439	1.3306

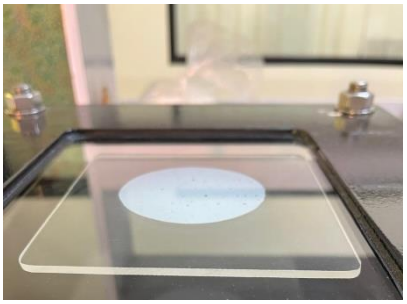
Lampiran 24 Evaluasi Daya Lekat Stabilitas Cycling Test



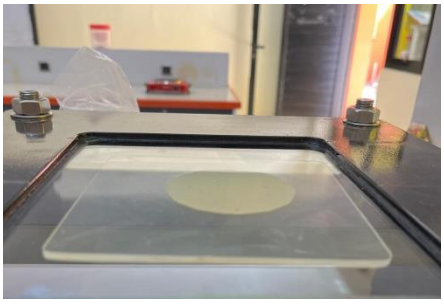
Formula 0



Formula 1



Formula 2



Formula 3

Formula	Siklus ke-	Batch			Rata-rata±SD
		1	2	3	
F0	1	8,83	8,80	9,49	9,04±0,39
	2	8,72	8,81	8,85	8,79±0,07
	3	8,61	8,89	8,72	8,74±0,14
	4	8,95	9,27	9,21	9,15±0,17
	5	9,37	8,30	9,24	8,97±0,58
	6	9,11	9,09	8,53	8,91±0,33
F1	1	9,27	8,92	9,69	9,29±0,39
	2	9,21	8,81	10,17	9,40±0,70
	3	8,99	9,38	10,12	9,50±0,57
	4	9,71	9,72	9,22	9,55±0,29
	5	9,56	9,30	8,96	9,27±0,30
	6	9,67	9,14	9,27	9,36±0,28
F2	1	8,94	10,55	10,68	10,05±0,97
	2	9,41	9,65	9,92	9,66±0,26
	3	9,73	10,34	10,03	10,03±0,31
	4	9,91	9,79	10,18	9,96±0,20
	5	10,08	10,4	9,69	10,06±0,35
	6	10,45	10,47	9,87	10,26±0,34
F3	1	8,74	10,52	9,19	9,48±0,93
	2	8,76	10,27	10,24	9,76±0,87
	3	8,46	10,16	8,92	9,18±0,88
	4	9,24	10,39	9,72	9,78±0,58
	5	9,24	9,66	9,77	9,56±0,28
	6	9,87	9,25	9,72	9,61±0,31

Lampiran 25 Hasil Analisis Statistic Daya Lekat Krim Tabir Surya

Uji normalitas

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	siklus	Statistic	df	Sig.	Statistic	df	Sig.
Dayalekat_F0	1	.372	3	.	.783	3	.073
	2	.265	3	.	.953	3	.583
	3	.223	3	.	.985	3	.765
	4	.319	3	.	.885	3	.339
	5	.345	3	.	.840	3	.213
	6	.374	3	.	.776	3	.058
Dayalekat_F1	1	.191	3	.	.997	3	.900
	2	.272	3	.	.947	3	.554
	3	.247	3	.	.969	3	.662
	4	.291	3	.	.925	3	.471
	5	.202	3	.	.994	3	.853
	6	.294	3	.	.920	3	.454
Dayalekat_F2	1	.361	3	.	.806	3	.128
	2	.182	3	.	.999	3	.935
	3	.176	3	.	1.000	3	.982
	4	.265	3	.	.953	3	.583
	5	.193	3	.	.997	3	.891
	6	.375	3	.	.775	3	.056
Dayalekat_F3	1	.291	3	.	.925	3	.469
	2	.263	3	.	.956	3	.595
	3	.283	3	.	.934	3	.505
	4	.210	3	.	.991	3	.818
	5	.311	3	.	.898	3	.378
	6	.296	3	.	.918	3	.447

a. Lilliefors Significance Correction

Uji homogenitas

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
Dayalekat_F0	Based on Mean	4.937	5	12	.011
	Based on Median	.443	5	12	.810
	Based on Median and with adjusted df	.443	5	5.721	.805
	Based on trimmed mean	4.097	5	12	.021
Dayalekat_F1	Based on Mean	1.212	5	12	.361
	Based on Median	.437	5	12	.814
	Based on Median and with adjusted df	.437	5	7.759	.811
	Based on trimmed mean	1.144	5	12	.390
Dayalekat_F2	Based on Mean	4.178	5	12	.020
	Based on Median	.473	5	12	.789
	Based on Median and with adjusted df	.473	5	3.193	.783
	Based on trimmed mean	3.630	5	12	.031
Dayalekat_F3	Based on Mean	1.853	5	12	.177
	Based on Median	.328	5	12	.886
	Based on Median and with adjusted df	.328	5	7.158	.881
	Based on trimmed mean	1.658	5	12	.219

Uji one way anova

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
Dayalekat_F0	Between Groups	.343	5	.069	.629	.682
	Within Groups	1.309	12	.109		
	Total	1.652	17			
Dayalekat_F1	Between Groups	.099	5	.020	.094	.991
	Within Groups	2.509	12	.209		
	Total	2.608	17			
Dayalekat_F2	Between Groups	.582	5	.116	.506	.767
	Within Groups	2.760	12	.230		
	Total	3.342	17			
Dayalekat_F3	Between Groups	.614	5	.123	.293	.907
	Within Groups	5.021	12	.418		
	Total	5.635	17			

Uji post hoc

Formula 0

Games-Howell	1	2	.24667	.22842	.860	-1.5313	2.0246
		3	.30000	.23944	.796	-1.2709	1.8709
		4	-.10333	.24565	.996	-1.6034	1.3967
		5	.07000	.40538	1.000	-2.0103	2.1503
		6	.13000	.29467	.996	-1.2886	1.5486
	2	1	-.24667	.22842	.860	-2.0246	1.5313
		3	.05333	.09006	.984	-.4789	.5856
		4	-.35000	.10546	.215	-1.0221	.3221
		5	-.17667	.33928	.989	-2.9100	2.5566
		6	-.11667	.19394	.981	-1.5910	1.3576
	3	1	-.30000	.23944	.796	-1.8709	1.2709
		2	-.05333	.09006	.984	-.5856	.4789
		4	-.40333	.12758	.175	-1.0195	.2129
		5	-.23000	.34679	.972	-2.7806	2.3206
		6	-.17000	.20680	.943	-1.4420	1.1020
	4	1	.10333	.24565	.996	-1.3967	1.6034
		2	.35000	.10546	.215	-.3221	1.0221
		3	.40333	.12758	.175	-.2129	1.0195
		5	.17333	.35111	.992	-2.2936	2.6402
		6	.23333	.21396	.861	-.9836	1.4503
	5	1	-.07000	.40538	1.000	-2.1503	2.0103
		2	.17667	.33928	.989	-2.5566	2.9100
		3	.23000	.34679	.972	-2.3206	2.7806
		4	-.17333	.35111	.992	-2.6402	2.2936
		6	.06000	.38700	1.000	-2.0615	2.1815
	6	1	-.13000	.29467	.996	-1.5486	1.2886
		2	.11667	.19394	.981	-1.3576	1.5910
		3	.17000	.20680	.943	-1.1020	1.4420
		4	-.23333	.21396	.861	-1.4503	.9836
		5	-.06000	.38700	1.000	-2.1815	2.0615

Formula 1

Games-Howell	1	2	-.10333	.46086	1.000	-2.6531	2.4464
		3	-.20333	.39919	.992	-2.2478	1.8412
		4	-.25667	.27709	.919	-1.6316	1.1182
		5	.02000	.28235	1.000	-1.3620	1.4020
		6	-.06667	.27382	1.000	-1.4393	1.3060
	2	1	.10333	.46086	1.000	-2.4464	2.6531
		3	-.10000	.52216	1.000	-2.6269	2.4269
		4	-.15333	.43598	.998	-2.8852	2.5786
		5	.12333	.43934	.999	-2.5738	2.8205
		6	.03667	.43391	1.000	-2.7186	2.7919
	3	1	.20333	.39919	.992	-1.8412	2.2478
		2	.10000	.52216	1.000	-2.4269	2.6269
		4	-.05333	.37020	1.000	-2.1920	2.0854
		5	.22333	.37415	.984	-1.8916	2.3383
		6	.13667	.36776	.998	-2.0189	2.2923

4	1	.25667	.27709	.919	-1.1182	1.6316
	2	.15333	.43598	.998	-2.5786	2.8852
	3	.05333	.37020	1.000	-2.0854	2.1920
	5	.27667	.23961	.839	-.8612	1.4145
	6	.19000	.22949	.947	-.8990	1.2790
5	1	-.02000	.28235	1.000	-1.4020	1.3620
	2	-.12333	.43934	.999	-2.8205	2.5738
	3	-.22333	.37415	.984	-2.3383	1.8916
	4	-.27667	.23961	.839	-1.4145	.8612
	6	-.08667	.23582	.998	-1.2093	1.0360
6	1	.06667	.27382	1.000	-1.3060	1.4393
	2	-.03667	.43391	1.000	-2.7919	2.7186
	3	-.13667	.36776	.998	-2.2923	2.0189
	4	-.19000	.22949	.947	-1.2790	.8990
	5	.08667	.23582	.998	-1.0360	1.2093

Formula 2

Games-Howell	1	2	.39667	.57866	.969	-3.7773	4.5706
		3	.02333	.58665	1.000	-4.0068	4.0535
		4	.09667	.57135	1.000	-4.2334	4.4268
		5	.00000	.59606	1.000	-3.8910	3.8910
		6	-.20667	.59317	.998	-4.1372	3.7239
	2	1	-.39667	.57866	.969	-4.5706	3.7773
		3	-.37333	.22959	.626	-1.4804	.7338
		4	-.30000	.18708	.637	-1.2150	.6150
		5	-.39667	.25267	.654	-1.6627	.8694
		6	-.60333	.24579	.324	-1.8195	.6129
	3	1	-.02333	.58665	1.000	-4.0535	4.0068
		2	.37333	.22959	.626	-.7338	1.4804
		4	.07333	.21050	.999	-1.0146	1.1613
		5	-.02333	.27047	1.000	-1.3220	1.2753
		6	-.23000	.26405	.936	-1.4904	1.0304

4	1	-.09667	.57135	1.000	-4.4268	4.2334
	2	.30000	.18708	.637	-.6150	1.2150
	3	-.07333	.21050	.999	-1.1613	1.0146
	5	-.09667	.23547	.997	-1.3895	1.1962
	6	-.30333	.22806	.763	-1.5338	.9271
5	1	.00000	.59606	1.000	-3.8910	3.8910
	2	.39667	.25267	.654	-.8694	1.6627
	3	.02333	.27047	1.000	-1.2753	1.3220
	4	.09667	.23547	.997	-1.1962	1.3895
	6	-.20667	.28435	.968	-1.5564	1.1431
6	1	.20667	.59317	.998	-3.7239	4.1372
	2	.60333	.24579	.324	-.6129	1.8195
	3	.23000	.26405	.936	-1.0304	1.4904
	4	.30333	.22806	.763	-.9271	1.5338
	5	.20667	.28435	.968	-1.1431	1.5564

Formula 3

Games-Howell	1	2	-.27333	.73072	.998	-3.7475	3.2008
		3	.30333	.73707	.997	-3.1969	3.8036
		4	-.30000	.62989	.994	-3.6149	3.0149
		5	-.07333	.55823	1.000	-3.9549	3.8082
		6	-.13000	.56606	1.000	-3.8886	3.6286
	2	1	.27333	.73072	.998	-3.2008	3.7475
		3	.57667	.71144	.951	-2.7977	3.9510
		4	-.02667	.59969	1.000	-3.1022	3.0489
		5	.20000	.52392	.997	-3.3668	3.7668
		6	.14333	.53225	1.000	-3.3045	3.5911
	3	1	-.30333	.73707	.997	-3.8036	3.1969
		2	-.57667	.71144	.951	-3.9510	2.7977
		4	-.60333	.60741	.897	-3.7391	2.5324
		5	-.37667	.53274	.966	-4.0244	3.2711
		6	-.43333	.54094	.947	-3.9610	3.0943
	4	1	.30000	.62989	.994	-3.0149	3.6149
		2	.02667	.59969	1.000	-3.0489	3.1022
		3	.60333	.60741	.897	-2.5324	3.7391
		5	.22667	.37053	.982	-1.9395	2.3928
		6	.17000	.38222	.996	-1.9313	2.2713
	5	1	.07333	.55823	1.000	-3.8082	3.9549
		2	-.20000	.52392	.997	-3.7668	3.3668
		3	.37667	.53274	.966	-3.2711	4.0244
		4	-.22667	.37053	.982	-2.3928	1.9395
		6	-.05667	.24689	1.000	-1.2406	1.1273
	6	1	.13000	.56606	1.000	-3.6286	3.8886
		2	-.14333	.53225	1.000	-3.5911	3.3045
		3	.43333	.54094	.947	-3.0943	3.9610
		4	-.17000	.38222	.996	-2.2713	1.9313
		5	.05667	.24689	1.000	-1.1273	1.2406

Lampiran 26 tabel data serapan UV

Pembanding dan Formula

Formula

Sampel	PG (nm)	Abs			EE x 1	Abs x (EE x 1)			CF	SPF
		1	2	3		1	2	3		
ekstrak tunggal (F2)	290	2.7350	4.0000	4.0000	0.0150	0.0410	0.0600	0.0600	10	39.8183
	295	4.0000	4.0000	4.0000	0.0817	0.3268	0.3268	0.3268		
	300	4.0000	3.9070	4.0000	0.2874	1.1496	1.1229	1.1496		39.7407
	305	4.0000	4.0000	4.0000	0.3278	1.3112	1.3112	1.3112		
	310	4.0000	4.0000	4.0000	0.1864	0.7456	0.7456	0.7456		
	315	4.0000	4.0000	4.0000	0.0839	0.3356	0.3356	0.3356		40.0080
	320	4.0000	4.0000	4.0000	0.0180	0.0720	0.0720	0.0720		
						3.9818	**3.9741**	**4.0008**	Rata-rata	**39.86**
Bemotrizinol tunggal (F1)	290	3.9020	4.0000	4.0000	0.0150	0.0585	0.0600	0.0600	10	29.8368
	295	3.0905	4.0000	4.0000	0.0817	0.2525	0.3268	0.3268		
	300	3.0850	4.0000	4.0000	0.2874	0.8866	1.1496	1.1496		40.0080
	305	3.0300	4.0000	4.0000	0.3278	0.9932	1.3112	1.3112		
	310	2.7320	4.0000	4.0000	0.1864	0.5092	0.7456	0.7456		
	315	2.7930	4.0000	4.0000	0.0839	0.2343	0.3356	0.3356		39.9482
	320	2.7340	4.0000	3.6680	0.0180	0.0492	0.0720	0.0660		
						2.9837	**4.0008**	**3.9948**	Rata-rata	**36.60**
Kombinasi (F3)	290	4.0000	4.0000	4.0000	0.0150	0.0600	0.0600	0.0600	10	38.4868
	295	2.4800	4.0000	3.4860	0.0817	0.2026	0.3268	0.2848		
	300	4.0000	3.4860	2.9700	0.2874	1.1496	1.0019	0.8536		37.8391
	305	4.0000	4.0000	2.3000	0.3278	1.3112	1.3112	0.7539		
	310	4.0000	3.6610	3.4560	0.1864	0.7456	0.6824	0.6442		
	315	3.6670	4.0000	3.9700	0.0839	0.3077	0.3356	0.3331		30.0161
	320	4.0000	3.6680	4.0000	0.0180	0.0720	0.0660	0.0720		
						3.8487	**3.7839**	**3.0016**	Rata-rata	**35.45**
Pembanding	290	4.0000	4.0000	4.0000	0.0150	0.0600	0.0600	0.0600	10	40.0080
	295	4.0000	4.0000	4.0000	0.0817	0.3268	0.3268	0.3268		
	300	4.0000	4.0000	4.0000	0.2874	1.1496	1.1496	1.1496		40.0080
	305	4.0000	4.0000	4.0000	0.3278	1.3112	1.3112	1.3112		
	310	4.0000	4.0000	4.0000	0.1864	0.7456	0.7456	0.7456		
	315	4.0000	4.0000	4.0000	0.0839	0.3356	0.3356	0.3356		40.0080
	320	4.0000	4.0000	4.0000	0.0180	0.0720	0.0720	0.0720		
						4.0008	**4.0008**	**4.0008**	Rata-rata	**40.01**
F0	290	1.4420	1.3400	1.3230	0.0150	0.0216	0.0201	0.0198	10	8.8658
	295	1.1670	1.0670	1.0610	0.0817	0.0953	0.0872	0.0867		
	300	0.8970	0.7910	0.7820	0.2874	0.2578	0.2273	0.2247		7.8612

	305	0.8440	0.7430	0.7290	0.3278	0.2767	0.2436	0.2390		
	310	0.8350	0.7350	0.7070	0.1864	0.1556	0.1370	0.1318		
	315	0.7920	0.7071	0.6450	0.0839	0.0664	0.0593	0.0541		7.6775
	320	0.7250	0.6460	0.6450	0.0180	0.0131	0.0116	0.0116		
						0.8866	**0.7861**	**0.7678**	Rata-rata	**8.13**
	290	4.0000	4.0000	4.0000	0.0150	0.0600	0.0600	0.0600		39.6615
	295	4.0000	4.0000	4.0000	0.0817	0.3268	0.3268	0.3268		
	300	4.0000	4.0000	4.0000	0.2874	1.1496	1.1496	1.1496		
F1	305	3.8960	4.0000	4.0000	0.3278	1.2771	1.3112	1.3112	10	39.9166
	310	4.0000	4.0000	4.0000	0.1864	0.7456	0.7456	0.7456		
	315	4.0000	4.0000	4.0000	0.0839	0.3356	0.3356	0.3356		40.0080
	320	3.9690	3.4920	4.0000	0.0180	0.0714	0.0629	0.0720		
						3.9662	**3.9917**	**4.0008**	Rata-rata	**39.86**
	290	4.0000	3.9020	3.1950	0.0150	0.0600	0.0585	0.0479		38.8206
	295	4.0000	3.0905	3.0200	0.0817	0.3268	0.9869	0.2467		
	300	4.0000	3.0850	3.7320	0.2874	1.1496	0.8866	1.0726		
F2	305	4.0000	3.0300	2.1130	0.3278	1.3112	0.9932	0.6926	10	38.6575
	310	3.3630	2.7320	4.0000	0.1864	0.6269	0.5092	0.7456		
	315	4.0000	2.7930	4.0000	0.0839	0.3356	0.2343	0.3356		32.1308
	320	4.0000	2.7340	4.0000	0.0180	0.0720	0.1968	0.0720		
						3.8821	**3.8658**	**3.2131**	Rata-rata	**36.54**
	290	4.0000	4.0000	4.0000	0.0150	0.0600	0.0600	0.0600		32.5394
	295	3.6170	3.4830	3.5410	0.0817	0.2955	0.2846	0.2893		
	300	3.6030	3.2340	3.2340	0.2874	1.0355	0.9295	0.9295		
F3	305	3.1483	3.3230	3.0120	0.3278	1.0320	1.0893	0.9873	10	31.5874
	310	2.6500	2.9720	2.8930	0.1864	0.4940	0.5540	0.5393		
	315	3.3700	2.2730	2.2550	0.0839	0.2827	0.1907	0.1892		30.4585
	320	3.0120	2.8200	2.8510	0.0180	0.0542	0.0508	0.0513		
						3.2539	**3.1587**	**3.0459**	Rata-rata	**31.53**

Contoh Uraian Perhitungan Nillai Spf

Λ Nm	**Ee × 1**	**Absorbansi**		
		Replikasi 1	**Replikasi 2**	**Replikasi 3**
290	0,015	4,000	4,000	4,000
295	0,0817	3,6170	3,4830	3,5410
300	0,2874	3,6030	3,2340	3,2340
305	0,3278	3,1483	3,3230	3,0120
310	0,1864	2,6500	2,9720	2,8930
315	0,0837	3,3700	2,2730	2,2550
320	0,018	3,0120	2,8200	2,8510

$$\textbf{(}SPFspektrophotometric = CF \sum_{320}^{290} \quad \times EE(\lambda) \times l \times (\lambda) \times Abs(\lambda)$$

Replikasi 1

SPF = 10×{(0,015×4,000)+(0,0817×3,6170)+(0,2874×3,6030)+(0,3278×3,1483)×

(0,1864×2,6500)×(0,0837×3,3700)+(0,018×3,0120)

=10×3,2539 = 32,539

Replikasi 2

SPF = 10×{(0,015×4,000)+(0,0817×3,4830)+(0,2874×3,2340)+(0,3278×3,3230)×

(0,1864×2,9720)×(0,0837×2,2730)+(0,018×2,8200)

= 10×3,1587 = 31,587

Replikasi 3

SPF = 10×{(0,015×4,000)+(0,0817×3,5410)+(0,2874×3,2340)+(0,3278×3,0120)×

(0,1864×2,8930)×(0,0837×2,2550)+(0,018×2,8510)

= 10×3,0459= 30,459

SPF $= \frac{REPLIKASI\ 1 + REPLIKASI\ 2 + REPLIKASI\ 3}{3}$

$= \frac{32,539 + 31,587 + 30,459}{3}$

= 31,53

Lampiran 27 Hasil Analisis Statistic Penentuan Nilai Spf Krim Tabir Surya

Uji Normalitas

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	formula	Statistic	df	Sig.	Statistic	df	Sig.
spf	F0	.334	3	.	.860	3	.269
	F1	.276	3	.	.942	3	.537
	F2	.175	3	.	1.000	3	.991
	F3	.190	3	.	.998	3	.905

a. Lilliefors Significance Correction

Uji Homogenitas

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
spf	Based on Mean	1.248	3	8	.355
	Based on Median	.987	3	8	.446
	Based on Median and with adjusted df	.987	3	5.915	.460
	Based on trimmed mean	1.236	3	8	.359

Uji One Way Anova

ANOVA

spf

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	1963.655	3	654.552	882.066	.000
Within Groups	5.937	8	.742		
Total	1969.592	11			

Uji Post Hoc

Post Hoc Tests

Multiple Comparisons

Dependent Variable: spf

Bonferroni

(I) formula	(J) formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
F0	F1	-31.72333*	.70336	.000	-34.1702	-29.2764
	F2	-30.67667*	.70336	.000	-33.1236	-28.2298
	F3	-23.39333*	.70336	.000	-25.8402	-20.9464
F1	F0	31.72333*	.70336	.000	29.2764	34.1702
	F2	1.04667	.70336	1.000	-1.4002	3.4936
	F3	8.33000*	.70336	.000	5.8831	10.7769
F2	F0	30.67667*	.70336	.000	28.2298	33.1236
	F1	-1.04667	.70336	1.000	-3.4936	1.4002
	F3	7.28333*	.70336	.000	4.8364	9.7302
F3	F0	23.39333*	.70336	.000	20.9464	25.8402
	F1	-8.33000*	.70336	.000	-10.7769	-5.8831
	F2	-7.28333*	.70336	.000	-9.7302	-4.8364

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

Surat Komisi Etik

KOMISI ETIK PENELITIAN KESEHATAN
UNIVERSITAS BHAKTI KENCANA
Jl. Soekarno - Hatta 754. Bandung
Telp : 022-7830 760 / 022-7830-768
Email : komisi.etik@bku.ac.id

KOMISI ETIK PENELITIAN KESEHATAN
HEALTH RESEARCH ETHICS COMMITTE
UNIVERSITAS BHAKTI KENCANA
BHAKTI KENCANA UNIVERSITY

KETERANGAN LAYAK ETIK
DESCRIPTION OF ETHICAL APPROVAL
"ETHICAL APPROVAL"
097/09.KEPK/UBK/VI/2025

Protokol penelitian yang diusulkan oleh :
The research protocol proposed by :

Peneliti Utama : Else Salsabilla
Principal in investigator

Nama institusi : Universitas Bhakti kencana
Name of institution

Dengan judul :
Tittle

Formulasi dan Evaluasi Krim Kombinasi Ekstrak Daun Binahong (Anredera cordifolia (Ten) Steenis), Kulit Buah Manggis (Garcinia mangostana L), Daun Pegagan (Centella asiatica) dan Bemotrizinol sebagai Tabir Surya

Formulation and Evaluation of Combination Cream of Binahong Leaf Extract (Anredera cordifolia (Ten) Steenis), Mangosteen Peel (Garcinia mangostana L), Pegagan Leaves (Centella asiatica) and Bemotrizinol as Sunscreen

Dinyatakan layak etik sesuai (tujuh) standar WH0 2011, yaitu 1) Nilai Sosial, 2) Nilai Ilmiah, 3) Pemerataan Beban dan Manfaat, dan 4) Risiko, 5) Bujukan atau eksploitasi, 6) Kerahasiaan atau Privacy, 7) Persetujuan Setelah Penjelasan, yang merujuk pada Pedoman CIOMS 2016. Hal ini seperti yang ditunjukan oleh terpenuhnya indikator setiap standar.

Declared to be ethically approviate in accordance to 7 (seven) WHO 2011standars, 1) Social Value, 2) Scientific Value, 3) Equitable Assessment and Benefits, 4) Risks, 5) Persuasion/Eksploitation, 6) Confidentiality and Privacy, and Informed Concent, referring to the 2016 CIOMS guidelines. This is as indicated by the fulfillment of the indicators of each standards.

Pernyataan Laik Etik ini berlaku selama kurun waktu 04 Juni 2025 sampai dengan tanggal 04 Juni 2026.

This declaration of ethics applies during the period 4 th June 2025 until 4 th June 2026.

04 Juni 2025
Professor and Chairperson

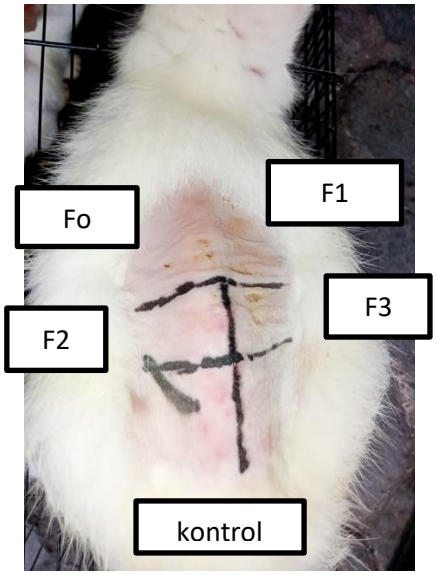
R. Nety Rustikayanti, S.Kp., M.Kep
NIK. 02019010336

Lampiran 28 Hasil Uji Iritasi

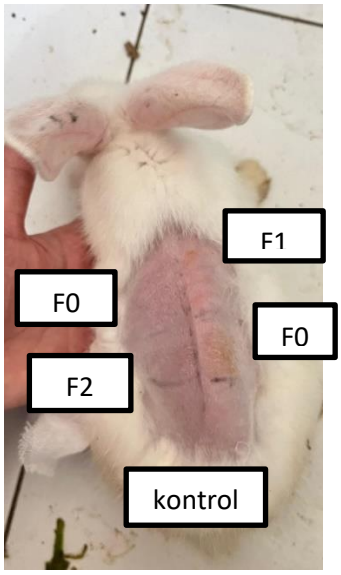
Waktu	Efek iritasi	Kelompok uji				
		kontrol	F0	F1	F2	F3
Jam ke 24	Iritasi	0	0	1	0	1
	Edema	0	0	0	0	0
Jam ke 48	Iritasi	0	0	0	0	0
	Edema	0	0	0	0	0
Jam ke 72	Iritasi	0	0	0	0	0
	Edema	0	0	0	0	0
Indeks iritasi				0,3		0,3

Keterangan :

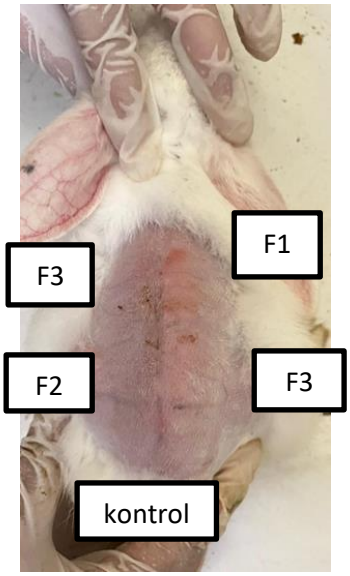
Control : tidak diberi perlakuan
F0 : krim tidak mengandung zat aktif
F1 : krim ekstrak kulit buah manggis
F2 : krim bemotrizinol
F3 : krim kombinasi ekstrak kulit b uah manggis (garcinia mangostana L) dengan bemotrizinol



Jam ke 24



Jam ke 48



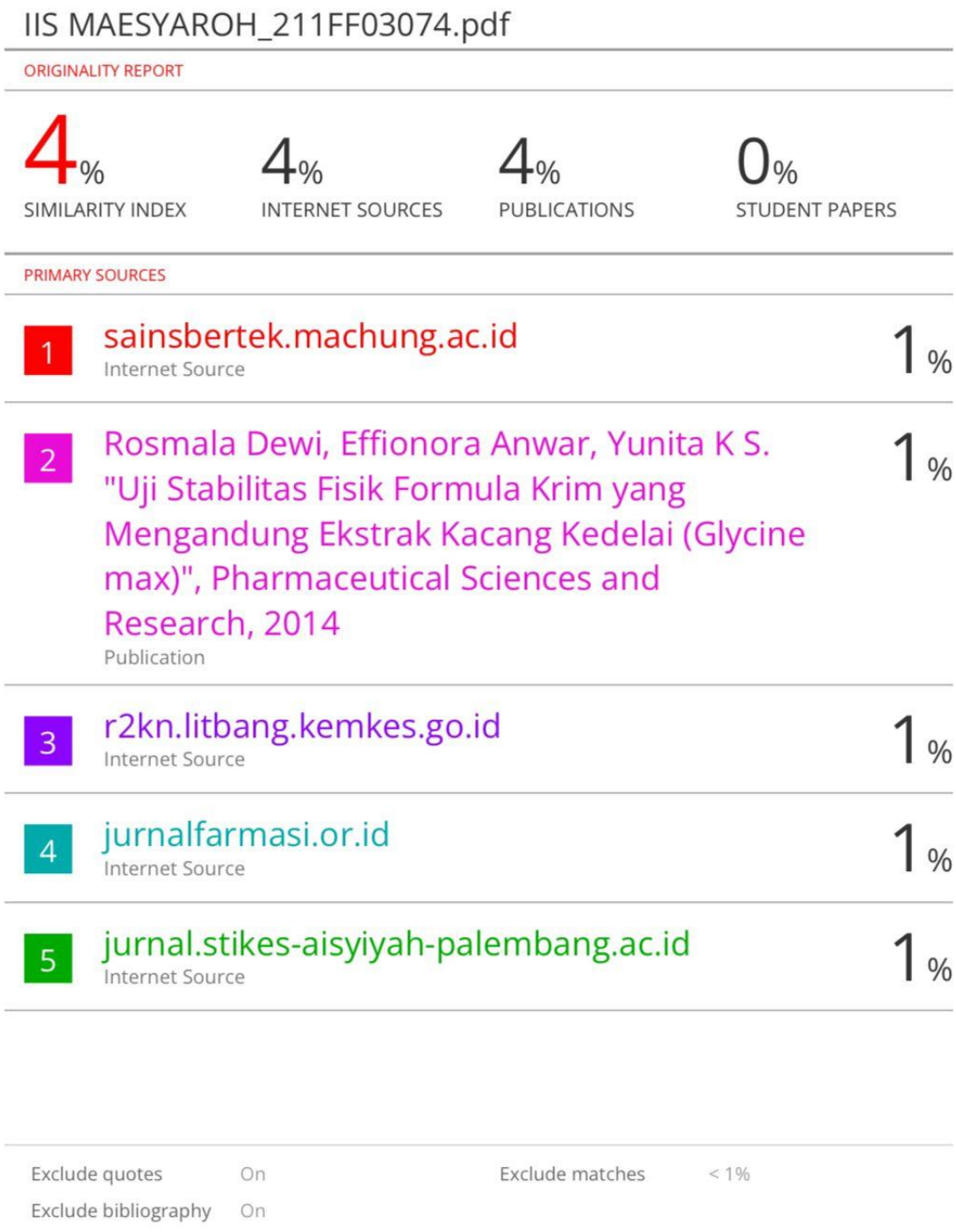
Jam ke 72

Lampiran 29 Bimbingan Tugas Akhir

NIM	21IFF03074	Nama Mahasiswa	IIS MAESYAROH
Program Studi	S1 Farmasi	Jenis TA	Skripsi
Periode Mulai	2024 Genap	SKS Lulus	149 SKS
Tgl. Mulai	4 Maret 2025	Judul Tugas Akhir	Formulasi Dan Evaluasi Krim Kombinasi Ekstrak Kulit Buah Manggis (Garcinia Mangostan L.) Dan Bemotrizinol Sebagai Tabir Surya
Tahap	Sidang Akhir/ Komprehensif (Ujian)	Status	Selesai

No	Tanggal	Dosen Pembimbing	Topik	Disetujui	Aksi
1	5 Mei 2025	Dr. apt. Garnadi Jafar, M.Si	kemajuan 1 TA 2	✔	
1	5 Maret 2025	Dr. apt. Dadih Supriadi, M.Si.	optimasi basis	✔	
2	15 Mei 2025	Dr. apt. Garnadi Jafar, M.Si	Progresan draft	✔	
2	10 April 2025	Dr. apt. Dadih Supriadi, M.Si.	hasil optimasi desain	✔	
3	3 Mei 2025	Dr. apt. Dadih Supriadi, M.Si.	kemajuan 2 TA1	✔	
3	16 Mei 2025	Dr. apt. Garnadi Jafar, M.Si	Diskusi	✔	
4	26 Mei 2025	Dr. apt. Garnadi Jafar, M.Si	Draf skripsi	✔	
4	16 Mei 2025	Dr. apt. Dadih Supriadi, M.Si.	Diskusi	✔	
5	5 Mei 2025	Dr. apt. Garnadi Jafar, M.Si	revisi draf skripsi	✔	
5	26 Mei 2025	Dr. apt. Dadih Supriadi, M.Si.	Draf skripsi	✔	
6	5 Mei 2025	Dr. apt. Dadih Supriadi, M.Si.	revisi draf skripsi	✔	
6	28 Mei 2025	Dr. apt. Garnadi Jafar, M.Si	Revisi draf skripsi	✔	
7	29 Mei 2025	Dr. apt. Dadih Supriadi, M.Si.	Revisi draf skripsi	✔	
7	29 Mei 2025	Dr. apt. Garnadi Jafar, M.Si	Ppt seminar kolokium	✔	
8	30 Mei 2025	Dr. apt. Dadih Supriadi, M.Si.	Ppt seminar kolokium	✔	
8	30 Mei 2025	Dr. apt. Garnadi Jafar, M.Si	tanda tangan	✔	

Lampiran 30 Hasil Cek Plagiarisme



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Lampiran 31 RIWAYAT HIDUP

Iis maesyaroh adalah nama penulis skripsi ini. Penulis lahir di Bandung, 14 November 2002. Penulis lahir dari pasangan H. Abdul Salim (bapak) dan HJ. Eros Rosmiati (mamah) yang merupakan anak bungsu dari tiga bersaudara yakni Muhammad Ilyas dan Nurasiah.

Pada tahun 2010 penulis masuk Sekolah Dasar Negri 1 Cipeundeuy dan lulus pada tahun 2016. Kemudian melanjutkan sekolah tingkat pertama pada tahun yang sama di SMP Plus Al-Ittihad Cianjur dan lulus pada tahun 2019. Selanjutnya masuk pada sekolah menengah akhir di SMA Plus Al-Ittihad Cianjur dan lulus pada tahun 2021. Pada tahun yang sama penulis diterima menjadi mahasiswa Jurusan Farmasi Fakultas Farmasi.

Universitas Bhakti Kencana Bandung melalui jalur masuk mandiri. Pada bulan Januari 2022 penulis memulai pengalaman baru dengan mengikuti kepanitiaan EXCO FF UBK yaitu merupakan perlombaan fakultas farmasi antar berbagai universitas lain seperti bidang olahraga. Pada bulan Mei 2022-2023 mengikuti Unit Kegiatan Mahasiswa (UKM) yaitu Glee (paduan suara) yang merupakan wadah bagi mahasiswa untuk mengembangkan suara yang dapat diperoleh didalam perkuliahan formal. Pada bulan Oktober 2022 penulis mengikuti kepanitiaan Pengenalan Kehidupan Kampus bagi Mahasiswa Baru (PKKMB) sebagai pembimbing kelompok yang dimana bekerja dengan mengarahkan dan memberi informasi terkait universitas serta materi singkat kepada kelompok. Pada bulan September 2023 penulis mengikuti perlombaan Program Kreativitas Mahasiswa (PKM) dengan membuat produk makanan yaitu Morich Flakes yang merupakan makanan sereal antidiabetes dengan memenangkan juara 2. Pada bulan Oktober 2023 mengikuti kegiatan Kuliah Kerja Nyata (KKN) di desa Cilengkrang selama 1 bulan.

Pada bulan Oktober 2024- Januari 2025 penulis mengikuti magang merdeka di RSUD Prov Jawa Barat. Pada saat magang, penulis juga sedang mengerjakan tugas akhir ini (skripsi). Dua kegiatan setiap hari harus dipenuhi dengan semangat dan dukungan, tidak mudah melewati fase ini tetapi alhamdulillah penulis bisa menyelesaikan magang dan skripsi tepat waktu.

Berkat petunjuk dan pertolongan Allah Subhanahuwata'ala serta doa kedua orang tua dalam menjalani aktivitas akademik di Universitas Bhakti Kencana Bandung. Alhamdulillah penulis dapat menyelesaikan tugas akhir dengan Skripsi yang berjudul "Formulasi Dan Evaluasi Krim Kombinasi Ekstrak Kulit Buah Manggis (*Garcinia Mangostana L.*) Dan Bemotrizinol Sebagai Tabir Surya"