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Lampiran 2 Kartu Bimbingan

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



Fakultas Farmasi
Universitas
Bhakti Kencana



KARTU BIMBINGAN TUGAS AKHIR II

Pembimbing Utama	: apt. Yanni Dhiani Mardhani, M.BSc				
Nama Mahasiswa	: Isma Nurani				
NPM	: 201FF03071				
Bidang Ilmu	: Farmasetika dan Teknologi Farmasi (FTF)				

No	Hari/Tanggal	Waktu	Tempat	Materi	Paraf Dosen
1.	Kamis/ 29 Februari 2024	Online	Whatsapp	Diskusi Prosedur TA2	
2.	Jumat/ 1 Maret 2024	Online	Whatsapp	Diskusi dan TTD Surat Ijin Penelitian	
3.	Jumat/ 18 Maret 2024	Online	Whatsapp	Diskusi Prosedur TA 2	
4.	Jumat/ 22 Maret 2024	Online	Kediaman Dosen	Diskusi Dan Persiapan Optimasi	
5	Selasa/ 26 Maret 2024	Online	Whatsapp	Ulasan hasil optimasi	
6	Senin/ 1 April 2024	Online	Whatsapp	Diskusi dan persiapan reproduksibilitas	
7	Kamis/ 25 April 2024	Online	Whatsapp	Diskusi dan ulasan hasil reproduksibilitas	
8	Kamis/ 23 Mei 2024	Online	Whatsapp	Permintaan Tanda Tangan Laporan Kemajuan 2	
9	Jumat/ 12 Juli 2024	Offline	UBK	Diskusi dan Tanda tangan Halaman persetujuan	
10	Jumat/ 19 Juli 2024	Offline	UBK	Diskusi dan persiapan Seminar Hasil	

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



Fakultas Farmasi
Universitas
Bhakti Kencana

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



KARTU BIMBINGAN TUGAS AKHIR II

Pembimbing Utama	: Dr. Fenti Fatmawati, M.Si
Nama Mahasiswa	: Isma Nurani
NPM	: 201FF03071
Bidang Ilmu	: Farmasetika dan Teknologi Farmasi (FTF)

No	Hari/Tanggal	Waktu	Tempat	Materi	Paraf Dosen
1.	Jumat/ 23 Februari 2024	Online	Whatsapp	Diskusi persiapan optimasi	
2.	Jumat/ 1 Maret 2024	Online	Whatsapp	Diskusi dan permintaan tanda tangan untuk surat ijin penelitian	
3.	Kamis/ 7 Maret 2024	Online	Whatsapp	Diskusi	
4.	Selasa/ 26 Maret 2024	Online	Whatsapp	Diskusi dan ulasan hasil optimasi	
5.	Rabu/ 18 April 2024	Online	Whatsapp	Bimbingan dan Persiapan di lab	
6.	Senin/ 22 April 2024	Online	Whatsapp	Diskusi dan ulasan	
7.	Selasa/ 30 April 2024	Online	Whatsapp	Permintaan tanda tangan Laporan Kemajuan 2 TA2	
8.	Jumat/ 3 Mei 2024	Online	Whatsapp	Diskusi dan ulasan hasil reproduksibilitas	
9.	Senin/ 27 Mei 2024	Online	Whatsapp	Diskusi dan persiapan uji aktivitas	
10.	Jumat/ 21 Juni 2024	Online	Whatsapp	Diskusi dan ulasan uji aktivitas	
11.	Jumat/ 12 Juli 2024	Offline	Whatasapp	Diskusi dan tanda tangan halaman persetujuan	
12.	Jumat/ 19 Juli 2024	Offline	UBK	Diskusi dan persiapan Seminar Hasil	

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

Lampiran 3 Dokumentasi Certificate Of Analysis (CoA) Bahan Aktif dan Eksiipien Carbomer 940

COREL PHARMA CHEM
THOL ROAD, KADI - 382715, DIST. MEHSANA, GUJARAT(INDIA)
PHONE: + 91 8000880044/55 E-MAIL: corel@corelpharmachem.com WEB SITE: www.corelpharmachem.com

CERTIFICATE OF ANALYSIS

NAME OF PRODUCT: **ACRYPOL 940**
(Carbomer - 940)

BATCH NO: 11022078 DATE: 12/01/2023

MFG. DATE: JAN.-2023 A.R.NO.: CRL/FP/078/22-23

RETEST DATE: DEC.-2025

The supply as detailed above has been tested and found to meet the requirement as below on sample basis.

TEST	SPECIFICATION*	RESULTS
DESCRIPTION	White, fluffy, hygroscopic powder having a slight, characteristic odor. The pH of 1 in 100 dispersion in water is about 3.	White fluffy, hygroscopic powder having a slight, characteristic odor. The pH of 1 in 100 dispersion in water is about 3.
SOLUBILITY	When neutralize with alkali hydroxide or amine it dissolve in water, alcohol and glycerin	Complies
IDENTIFICATION A	Spectroscopic Identification Test	Complies
IDENTIFICATION B	1) 10 mg/ml dispersion with Thymol Blue - Orange Color	Orange color produced
	2) 10 mg/ml dispersion with cresol Red - Yellow Color	Yellow color produced
IDENTIFICATION C	Very viscous gel is produced	Very viscous gel is produced
LIMIT OF BENZENE (%)	NMT 0.5	Not detected
LIMIT OF ACRYLIC ACID (%)	NMT 0.25	0.17%
LOSS ON DRYING (%)	NMT 2.0	0.71%
VISCOSITY (mPa.s) (0.5% mucilage in water, 25 °C pH 7.3-7.8, spindle # 7, rpm 20)	40,000 to 60,000	50,000 mPa.s
ASSAY FOR CARBOXYLIC ACID CONTENT (%)	56.0 to 68.0	57.68%

* Specification as per finished product specification[QC/WI/335(07)], Meeting requirement of USP/NF (Carbomer 940)

TESTED BY
Mansi Patel
MANSI PATEL
(Q.C. Chemist)

AUTHORIZED BY
Pragnesh Prajapati
PRAGNESH PRAJAPATI
(In-charge QC)

The Next Generation Polymer Technologist
OFFICE: COREL HOUSE, NR. SHAYONA MARBLE, DPP BHADWAT PETROL PUMP, SG HIGHWAY, GOTA, AHMEDABAD-382481, INDIA. TELE: + 91-8000088001/102/33
ACRYCOAT • COLORCOAT • ACRYPOL • KYRON • ACRYCOL • ACRYFLOW • ACRYSET

Propilen glikol



XY-07C-04. 01. 03-F09

Dongying Hi-tech Spring Chemical Industry Co.,Ltd

Certificate of Analysis

Product name: Propylene glycol USP grade

Production Date: 2023/8/21

Batch No.: YF01230821

Expiry Date: 2025/8/20

Items	Unit	Specification	Results
Identification	--	passed	passed
Appearance	--	Colorless clear viscous liquid	Colorless clear viscous liquid
Assay	%	99.80min	99.89
EG	%	max 0.1%	0.016%
DEG	%	max 0.1%	0.015%
Residue on Ignition	mg	2.5max	0.7
Chloride	w/%	0.007max	<0.007
Sulfate	w/%	0.006max	<0.006
Heavy metals	ppm	5max	<5
Specific Gravity(25°C/25°C)	--	1.035-1.037	1.036
Acidity(0.1N NaOH)	mL	0.05max	0.01
Moisture	w/%	0.10max	0.069
Fe	ppm	0.1max	0.006
Colouring (Pt-Co)	Hazen	10max	<5
IBP	°C	184min	186
DP	°C	189max	187

End of Test Data

For Further questions, please contact us:

Phone: +864008003828

Checker: Liu Xiaoqing

Assessor: Qin Lili

Storage condition: Keep the product in a cool warehouse. Light protection. Sealed storage in a dry place. The temperature is not more than 40°C, the humidity does not exceed 90%.

Dongying Hi-tech Spring Chemical Industry Co., Ltd

No.23 Zoucheng Road, Dongying High-Tech Industrial Development Zone, Shandong, China,

Post Code: 257100

Stamp by Q.C dept



www.hi-techspring.com

Email: bkty@hi-techspring.com

Triethanolamine


PETRONAS

CERTIFICATE OF ANALYSIS

Page 1 of 1

TRIETHANOLAMINE 99% 228 KG STEEL DRUM

Carrier/Vehicle ID
Customer P.O. No.
Sales Order No.
Delivery Qty
Delivery Unit

EtSU 2215585
5210018468
100320191
80.000
DR

Material ID
Customer No.
Batch No.
Delivery No.
Inspection Dt.
Expire Dt.

72000064
8010000437
38059H
500582726
21 JUL 2022
21 JUL 2025

NOTE: THE TEST CHARACTERISTICS AND THEIR UNITS, TOLERANCES AND RESULTS LISTED BELOW WILL VARY DEPENDING ON THE BUSINESS, CUSTOMER & MATERIAL REQUIREMENTS.

Test Characteristics	Results	Unit	Tolerance Limits	Method
TRIETHANOLAMINE	99.9	WTP	99.0 - 100.0	1B-17A-0.1
MONOETHANOLAMINE	0.0	WTP	0.0 - 0.5	1B-17A-0.1
DIETHANOLAMINE	0.01	WTP	0.0 - 0.5	1B-17A-0.1
WATER	0.01	WTP	0.00 - 0.2	1B-17A-0.2
COLOR	2	PTCO	0 - 15	1B-17A-0
APPEARANCE	PASS:Clear	-	-	1B-17A-0

This product meets the Product Sales Specification. This result is based on the sample being tested.

Marketed by: PETRONAS CHEMICALS MARKETING (LABUAN) LTD (LL08320)

Minyak Atsiri Daun Kemangi (*Ocimum sanctum* L)



Importer of Essential Oils, Absolutes, and Carrier Oils
Jakarta, Indonesia Customessentialoil@gmail.com Phone 081295037988

Certificate of Analysis

Product	: Basil Organic Essential Oil	
Batch No	: 50001003063	
Best Before	: December, 2024	
Properties	Specifications	Results
Appearance	: Light yellow liquid.	Complies
Odor	: Characteristic spicy odor.	Complies
Solubility	: Insoluble in water	Complies
Specific Gravity	: 0.930 to 0.965 @ 25°C	Complies
Refractive Index	: 1.490 to 1.512 @ 20° C	Complies
Optical Rotation	: -16° to -2°	Complies
Linalool content	: 17 - 22%	Complies
Methyl Chavicol	: 70 - 78%	Complies

DISCLAIMER:

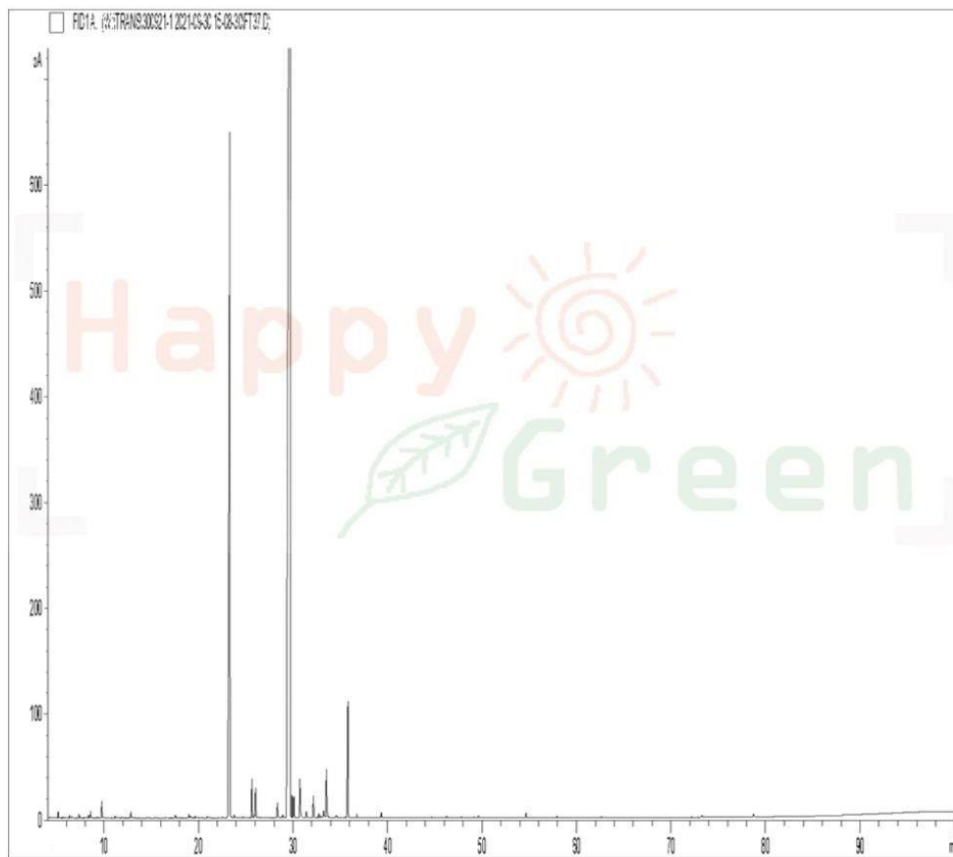
The information contained in this Certificate of Analysis is obtained from current and reliable sources. The information is correct at the time of testing, and the results may vary depending on batch and time of testing. Happy Green shall not be liable for any errors or delays in the content, or for any actions taken in reliance thereon. The information remains property of Happy Green and should not be propagate or used for any other purpose.

Storage: Store in air tight containers, in a cool dry area; away from direct sunlight.

Hasil GC-MS Minyak Atsiri Daun Kemangi

GCMS ANALYSIS

PRODUCT NAME: BASIL ORGANIC ESSENTIAL OIL - 50001
DATE: October 01, 2021



Due to volume turnover, this report is not lot specific. It is representative of the quality of this oil produced by the manufacturer of this product. Specific lots may vary slightly as is the case in natural products.

GCMS ANALYSIS (cont'd.)

PRODUCT NAME: BASIL ORGANIC ESSENTIAL OIL - 50001

Peak	RT (min)	Compound name	%
1	4,28	ISOVALERALDEHYDE	0,01
2	5,17	alpha-PINENE	0,04
3	5,71	CAMPHENE	0,01
4	6,35	beta-PINENE	0,03
5	6,56	SABINENE	0,01
6	7,36	beta-MYRCENE	0,03
7	8,37	LIMONENE	0,04
8	8,59	1,8-CINEOLE	0,08
9	9,25	cis-beta-OCIMENE	0,01
10	9,78	trans-beta-OCIMENE	0,19
11	11,20	OCTANAL	0,03
12	11,89	3-HEXEN-1-OL, ACETATE	0,02
13	12,86	5-HEPTEN-2-ONE, 6-METHYL-	0,10
14	14,56	3-HEXEN-1-OL	0,02
15	15,44	FENCHONE	0,01
16	17,55	LINALOOL cis-OXIDE	0,04
17	17,94	1-OCTEN-3-OL	0,01
18	18,99	MENTHONE	0,05
19	19,11	LINALOOL trans-OXIDE	0,03
20	19,65	OCTYL ACETATE	0,03
21	19,82	ISOGERANIAL	0,01
22	20,33	ISOMENTHONE	0,01
23	20,90	alpha-COPAENE	0,03
24	21,00	ISONERAL	0,02
25	21,04	CAMPHOR	0,01
26	22,14	beta-BOURBONENE	0,01
27	22,50	alpha-GURJUNENE	0,02
28	23,05	BERGAMOTENE ISOMER	0,02
29	23,32	LINALOOL	19,02
30	23,75	1-OCTANOL	0,06

GCMS ANALYSIS (cont'd.)

PRODUCT NAME: BASIL ORGANIC ESSENTIAL OIL - 50001

Peak	RT (min)	Compound name	%
31	24,21	MENTHYL ACETATE	0,02
32	24,46	ISOPULEGOL	0,01
33	24,68	alpha-cis-BERGAMOTENE	0,02
34	24,94	epsilon-CADINENE	0,01
35	25,65	alpha-trans-BERGAMOTENE	0,62
36	25,90	beta-ELEMENE	0,05
37	26,00	beta-CARYOPHYLLENE	0,55
38	26,04	TERPINENE-4-OL	0,02
39	26,51	HOTRIENOL	0,02
40	28,33	MENTHOL	0,30
41	28,51	ALLO-AROMADENDRENE	0,01
42	28,89	FARNESENE ISOMER	0,08
43	29,71	ESTRAGOL	71,97
44	29,89	alpha-HUMULENE	0,23
45	30,09	E-beta-FARNESENE	0,34
46	30,71	NERAL	0,79
47	30,85	Z-beta-FARNESENE	0,04
48	31,17	gamma-MUURULENE	0,01
49	31,41	alpha-TERPINEOL	0,14
50	32,15	GERMACRENE D	0,44
51	32,56	PIPERITONE	0,02
52	32,70	beta-SELINENE	0,03
53	32,73	alpha-ZINGIBERENE	0,04
54	32,93	HEXENYLIC ESTER	0,05
55	33,11	alpha-SELINENE	0,02
56	33,24	beta-BISABOLENE	0,12
57	33,34	CARVONE	0,05
58	33,52	GERANIAL	1,05
59	33,87	LINALOOL PYRANOID cis-OXIDE	0,01
60	34,12	beta-CURCUMENE	0,01

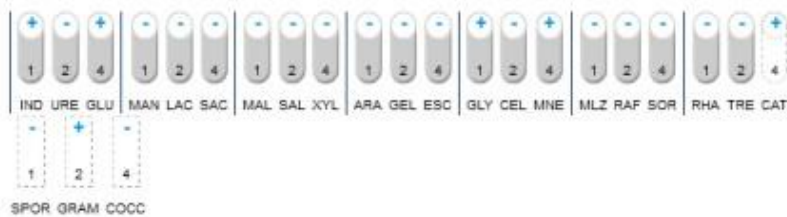
GCMS ANALYSIS (cont'd.)

PRODUCT NAME: BASIL ORGANIC ESSENTIAL OIL - 50001

Peak	RT (min)	Compound name	%
61	34,52	delta-CADINENE	0,03
62	34,58	GERANYL ACETATE	0,03
63	34,62	LINALOOL PYRANOID trans-OXIDE	0,02
64	35,12	CITRONELLOL	0,01
65	35,49	beta-SESQUIPHELLANDRENE	0,01
66	35,56	alpha-CURCUMENE	0,01
67	35,81	trans-alpha-BISABOLENE	2,12
68	36,75	NEROL	0,06
69	38,72	trans-ANETHOL	0,01
70	39,32	GERANIOL	0,09
71	39,98	ACETONE E-GERANYL	0,01
72	44,71	3,7-OCTADIENE-2,6-DIOL, 2,6-DIMETHYL-	0,02
73	45,28	CARYOPHYLLENE EPOXIDE	0,03
74	47,85	METHYLEUGENOL	0,03
75	48,90	ANISALDEHYDE	0,02
76	49,16	epoxy-6,7-HUMULENE	0,01
77	49,64	NEROLIDOL	0,04
78	50,11	CAPRYLIC ACID	0,01
79	53,54	SPATHULENOL	0,02
80	54,67	EUGENOL	0,09
81	56,45	alpha-MUUROLOL	0,01
82	57,93	alpha-BISABOLOL	0,02
83	58,32	beta-EUDESMOL	0,01
84	58,43	alpha-CADINOL	0,01
85	62,62	CHAVICOL	0,02
86	63,00	GERANIC ACID	0,01
87	73,25	CINNAMALDEHYDE, 3-METHOXY-	0,07
88	78,72	4-METHOXYPHENYL, 2-PROPANONE- Mw=164	0,06
		TOTAL	99,95

Bakteri *Propionibacterium acnes*

LABORATORIUM MIKROBIOLOGI-BIOTEKNOLOGI FARMASI
FAKULTAS FARMASI
UNIVERSITAS PADJADJARAN
 Gedung Laboratorium 2, Lantai 2 Fakultas Farmasi UNPAD
 Jl. Raya Bandung - Sumedang KM 21, Jatinangor-Sumedang 45363

**SERTIFIKAT UJI BAKTERI***PROPIONIBACTERIUM ACNES* Atcc. 1223

Significant taxa	% ID	T	Tests against			
Propionibacterium acnes	99.9	0.94				
Next taxon	% ID	T	Tests against			
Propionibacterium granulosum	0.1	0.34	IND	0%	SAC	82%

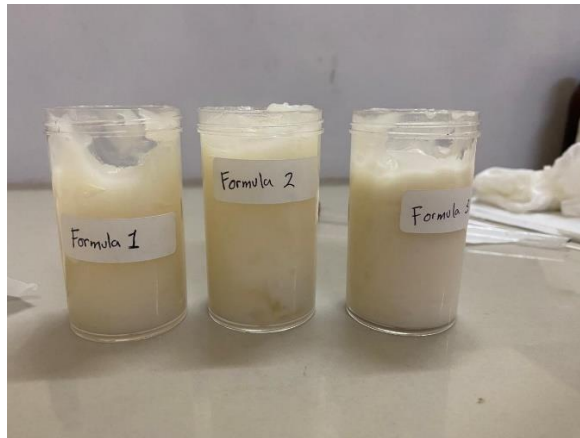


Mengetahui,
 Kepala Laboratorium Mikrobiologi-
 Bioteknologi Farmasi,

Dr. Tiana Rostinawati, M.Si., Apt.
 NID. 197301032006042001

Lampiran 4 Dokumentasi Hasil Evaluasi Optimasi

Uji Organoleptis Optimasi



Uji Daya Sebar Optimasi



BASIS	NILAI 1	NILAI 2	NILAI 3	RATA RATA	STD
B1	5,5	6	6	5,83	0,2887
B2	5,2	5	5	5,07	0,1155
B3	5,5	5,2	5,5	5,4	0,1732

Uji pH Optimasi



BASIS	NILAI 1	NILAI 2	NILAI 3	RATA-RATA	STD
B1	5,24	5,39	5,48	5,37	0,1212
B2	5,21	5,19	5,3	5,233333333	0,0586
B3	5,17	5,19	5,26	5,206666667	0,0473

Uji Viskositas



BASIS	NILAI 1	NILAI 2	NILAI 3	RATA-RATA	STD
B1	5,24	5,39	5,48	5,37	0,1212
B2	5,21	5,19	5,3	5,23	0,0586
B3	5,17	5,19	5,26	5,20	0,0473

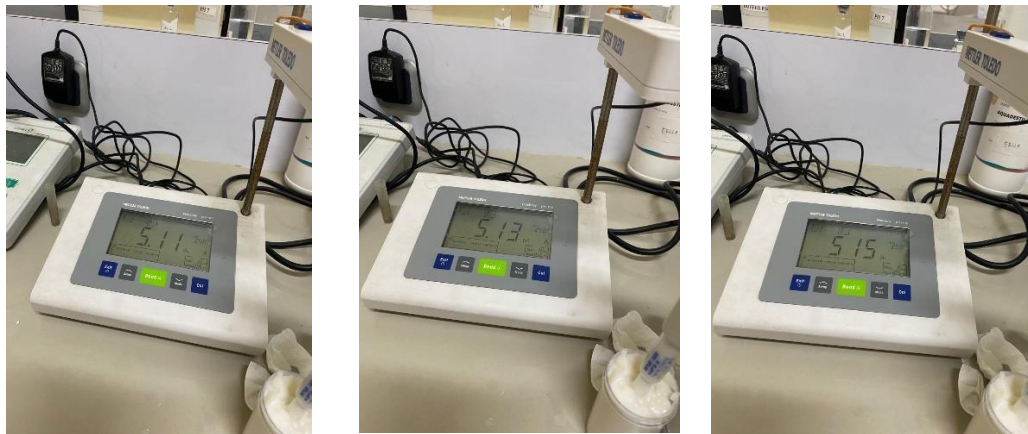
Lampiran 5 Dokumentasi Hasil Reproduksi

Uji daya sebar reproduksibilitas



BASIS	NILAI 1	NILAI 2	NILAI 3	RATA RATA	STD
BATCH 1	4,82	5,20	5,05	5,023333	0,191398
BATCH 2	4,78	5,12	5,05	4,983333	0,179536
BATCH 3	5,11	5,14	5,15	5,133333	0,020817

Uji pH reproduksibilitas



BASIS	NILAI 1	NILAI 2	NILAI 3	RATA RATA	STD
BATCH 1	4,82	5,20	5,05	5,023333	0,191398
BATCH 2	4,78	5,12	5,05	4,983333	0,179536
BATCH 3	5,11	5,13	5,15	5,133333	0,020817

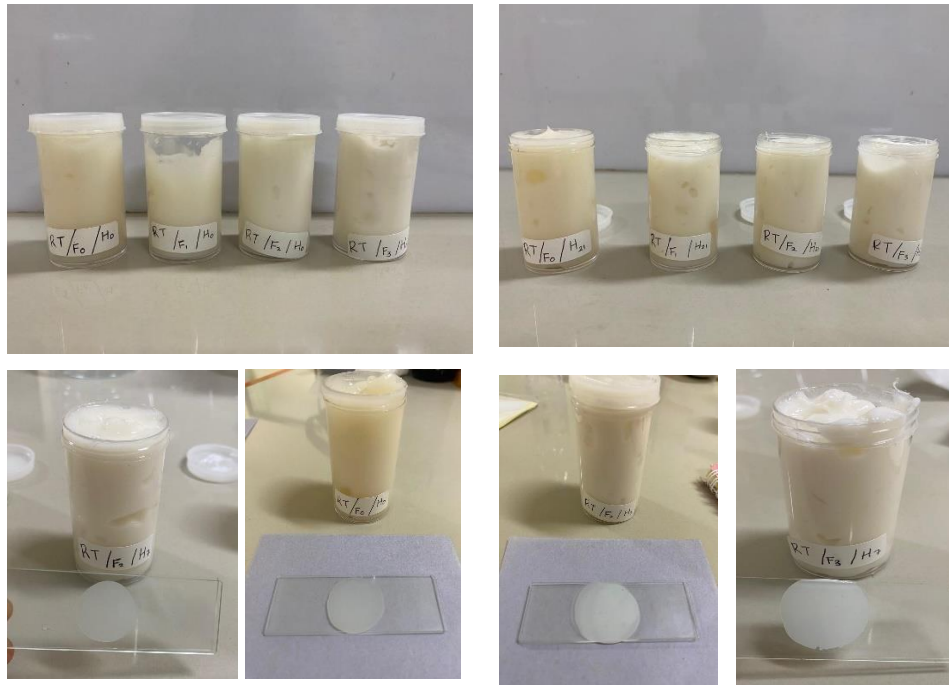
Uji Viskositas Reproduksi



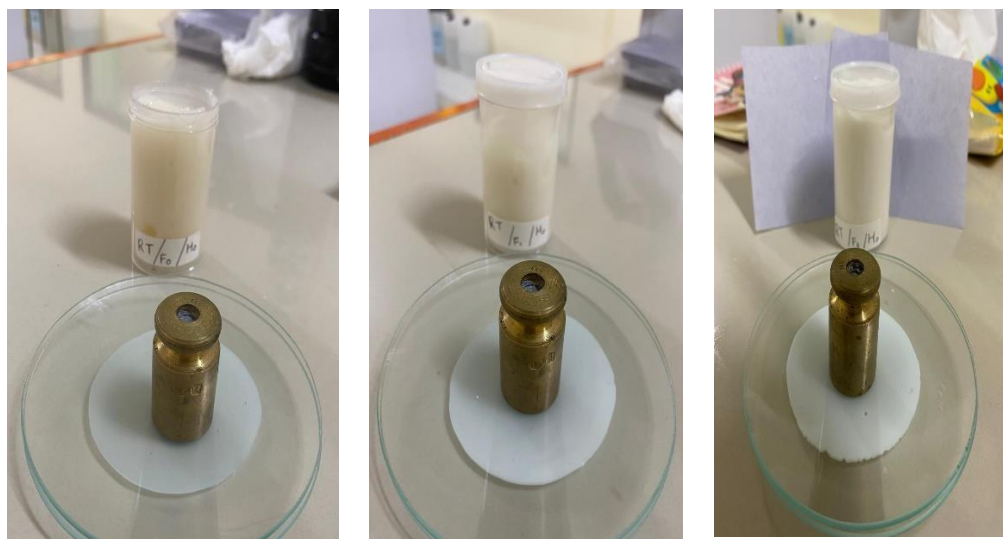
BASIS	NILAI 1	NILAI 2	NILAI 3	RATA RATA	STD
BATCH 1	14500	14480	14520	14500	20
BATCH 2	14600	14680	14660	14646,67	41,63332
BATCH 3	14720	14760	14680	14720	40

Lampiran 6 Dokumentasi Hasil Evaluasi Stabilitas Real-Time

Uji organoleptis dan homogenitas *Real-Time*



Uji Daya Sebar *Real-Time*



Formula	Pengamatan	Pengulangan			Rata Rata	STD
	Hari - Ke	1	2	3		
F0	H0	5,45	5,44	5,45	5,45	0,0058
	H7	5,55	5,54	5,56	5,55	0,0100
	H14	6	6,1	6	6,03	0,0577
	H21	6,4	6,45	6,44	6,43	0,0265
	H28	6,71	6,72	6,7	6,71	0,0100
F1	H0	5,6	5,65	5,6	5,62	0,0289
	H7	5,8	5,82	5,85	5,82	0,0252
	H14	6,2	6,22	6,2	6,21	0,0115
	H21	6,5	6,56	6,58	6,55	0,0416
	H28	6,7	6,73	6,75	6,73	0,0252
F2	H0	5,81	5,83	5,83	5,82	0,0115
	H7	5,9	5,91	5,92	5,91	0,0100
	H14	6,5	6,53	6,55	6,53	0,0252
	H21	6,55	6,57	6,59	6,57	0,0200
	H28	6,75	6,78	6,79	6,77	0,0208
F3	H0	6,1	6	6,1	6,07	0,0577
	H7	6,33	6,32	6,31	6,32	0,0100
	H14	6,65	6,62	6,64	6,64	0,0153
	H21	6,53	6,56	6,57	6,55	0,0208
	H28	6,75	6,77	6,78	6,77	0,0153

Uji pH Real-Time



Formula	Pengamatan	Pengulangan			Rata Rata	STD
	Hari - Ke	1	2	3		
F0	H0	5,82	5,8	5,8	5,81	0,0115
	H7	5,55	5,56	5,55	5,55	0,0058
	H14	5,4	5,4	5,35	5,38	0,0289
	H21	5,12	5,1	5,1	5,11	0,0115
	H28	4,86	4,88	4,9	4,88	0,0200
F1	H0	5,51	5,55	5,55	5,54	0,0231
	H7	5,21	5,21	5,2	5,21	0,0058
	H14	5,12	5,1	5,12	5,11	0,0115
	H21	4,9	4,92	4,9	4,91	0,0115
	H28	4,78	4,77	4,7	4,75	0,0436
F2	H0	5,45	5,45	5,45	5,45	0,0000
	H7	5,14	5,17	5,16	5,16	0,0153
	H14	4,9	4,9	4,93	4,91	0,0173
	H21	4,84	4,81	4,82	4,82	0,0153
	H28	4,67	4,75	4,62	4,68	0,0656
F3	H0	5,42	5,37	5,37	5,39	0,0289
	H7	5,1	5	5,1	5,07	0,0577
	H14	4,86	4,84	4,85	4,85	0,0100
	H21	4,75	4,75	4,77	4,76	0,0115
	H28	4,6	4,6	4,62	4,61	0,0115

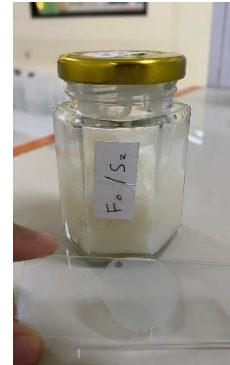
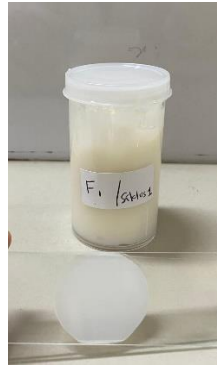
Uji Viskositas *Real-Time*



Formula	Pengamatan	Pengulangan			Rata Rata	STD
	Hari - Ke	1	2	3		
F0	H0	12746	12750	12745	12747	2,6458
	H7	12665	12666	12665	12665	0,5774
	H14	11810	11800	11815	11808	7,6376
	H21	11450	11455	11453	11453	2,5166
	H28	11290	11291	11292	11291	1,0000
F1	H0	12542	12544	12540	12542	2,0000
	H7	12482	12480	12480	12481	1,1547
	H14	11680	11683	11685	11683	2,5166
	H21	11360	11365	11364	11363	2,6458
	H28	10960	10965	10966	10964	3,2146
F2	H0	12444	12440	12445	12443	2,6458
	H7	12180	12185	12182	12182	2,5166
	H14	11610	11611	11615	11612	2,6458
	H21	11280	11285	11286	11284	3,2146
	H28	10880	10888	10885	10884	4,0415
F3	H0	11884	11885	11880	11883	2,6458
	H7	11660	11665	11660	11662	2,8868
	H14	11582	11580	11580	11581	1,1547
	H21	11110	11115	11115	11113	2,8868
	H28	10600	10610	10600	10603	5,7735

Lampiran 7 Dokumentasi Hasil Evaluasi Stabilitas *Freeze-Thaw*

Uji organoleptis *Freeze Thaw*



Uji Daya Sebar *Freeze-Thaw*



Formula	Pengamatan	Pengulangan			Rata Rata	STD
	Hari - Ke	1	2	3		
F0	S1	5,35	5,33	5,33	5,34	0,0115
	S2	5,5	5,53	5,5	5,51	0,0173
	S3	5,82	5,85	5,84	5,84	0,0153
	S4	6,22	6,23	6,22	6,22	0,0058
	S5	6,55	6,55	6,55	6,55	0,0000
	S6	6,7	6,72	6,72	6,71	0,0115
F1	S1	5,44	5,45	5,45	5,45	0,0058
	S2	5,62	5,64	5,65	5,64	0,0153
	S3	5,9	5,9	5,9	5,90	0,0000
	S4	6,45	6,44	6,42	6,44	0,0153
	S5	6,67	6,66	6,67	6,67	0,0058
	S6	6,72	6,75	6,74	6,74	0,0153
F2	S1	5,82	5,83	5,82	5,82	0,0058
	S2	5,95	5,93	5,93	5,94	0,0115
	S3	6,48	6,45	6,45	6,46	0,0173
	S4	6,64	6,65	6,65	6,65	0,0058
	S5	6,74	6,75	6,75	6,75	0,0058
	S6	6,8	6,82	6,82	6,81	0,0115
F3	S1	6,3	6,32	6,32	6,31	0,0115
	S2	6,56	6,55	6,55	6,55	0,0058
	S3	6,72	6,72	6,74	6,73	0,0115
	S4	6,78	6,75	6,75	6,76	0,0173
	S5	6,8	6,83	6,82	6,82	0,0153
	S6	6,85	6,85	6,85	6,85	0,0000

Uji pH Freeze-Thaw



Formula	Pengamatan	Pengulangan			Rata Rata	STD
	Hari - Ke	1	2	3		
F0	S1	5,83	5,85	5,85	5,84	0,0115
	S2	5,75	5,77	5,77	5,76	0,0115
	S3	5,38	5,35	5,37	5,37	0,0153
	S4	4,95	4,96	4,97	4,96	0,0100
	S5	4,65	4,65	4,65	4,65	0,0000
	S6	4,5	4,52	4,51	4,51	0,0100
F1	S1	5,67	5,66	5,66	5,66	0,0058
	S2	5,35	5,33	5,33	5,34	0,0115
	S3	5,15	5,15	5,1	5,13	0,0289
	S4	4,77	4,75	4,77	4,76	0,0115
	S5	4,57	4,56	4,57	4,57	0,0058
	S6	4,25	4,24	4,24	4,24	0,0058
F2	S1	5,54	5,55	5,55	5,55	0,0058
	S2	5,15	5,1	5,1	5,12	0,0289
	S3	4,89	4,88	4,88	4,88	0,0058
	S4	4,65	4,66	4,65	4,65	0,0058
	S5	4,47	4,44	4,45	4,45	0,0153
	S6	4,18	4,15	4,17	4,17	0,0153
F3	S1	5,43	5,44	5,45	5,44	0,0100
	S2	4,9	4,91	4,9	4,90	0,0058
	S3	4,67	4,65	4,67	4,66	0,0115
	S4	4,53	4,55	5,55	4,88	0,5832
	S5	4,35	4,33	4,32	4,33	0,0153
	S6	4	4,1	4	4,03	0,0577

Uji Viskositas *Freeze-Thaw*



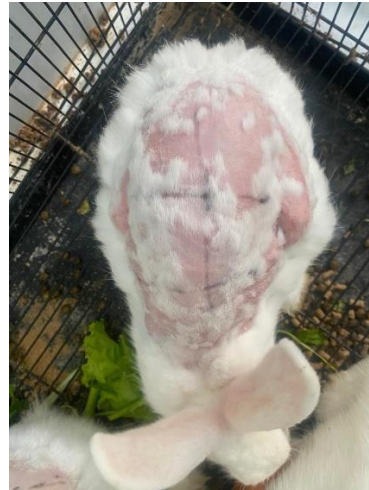
Formula	Pengamatan	Pengulangan			Rata Rata	STD
	Hari - Ke	1	2	3		
F0	S1	14400	14410	14400	14403	5,7735
	S2	14280	14285	14280	14282	2,8868
	S3	14160	14160	14165	14162	2,8868
	S4	14080	14089	14080	14083	5,1962
	S5	13920	13925	13925	13923	2,8868
	S6	13682	13680	13680	13681	1,1547
F1	S1	14325	14322	14320	14322	2,5166
	S2	14240	14240	14240	14240	0,0000
	S3	14080	14081	14082	14081	1,0000
	S4	13900	13900	13900	13900	0,0000
	S5	13820	13825	13820	13822	2,8868
	S6	13610	13600	13610	13607	5,7735
F2	S1	14180	14182	14185	14182	2,5166
	S2	14060	14065	14065	14063	2,8868
	S3	13980	13988	13988	13985	4,6188
	S4	13840	13845	13845	13843	2,8868
	S5	13550	13555	13555	13553	2,8868
	S6	13450	13450	13455	13452	2,8868
F3	S1	13980	13988	13980	13983	4,6188
	S2	13860	13866	13860	13862	3,4641
	S3	13700	13720	13720	13713	11,5470
	S4	13660	13666	13666	13664	3,4641
	S5	13500	13520	13520	13513	11,5470
	S6	13350	13355	13350	13352	2,8868

Lampiran 8 Dokumentasi Hasil Uji iritasi

Uji iritasi



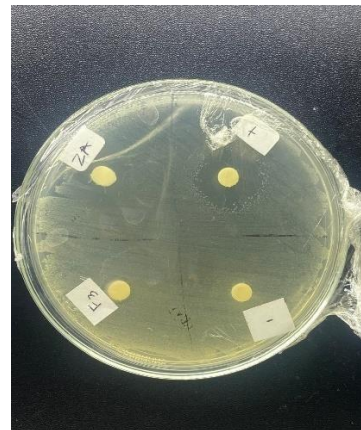
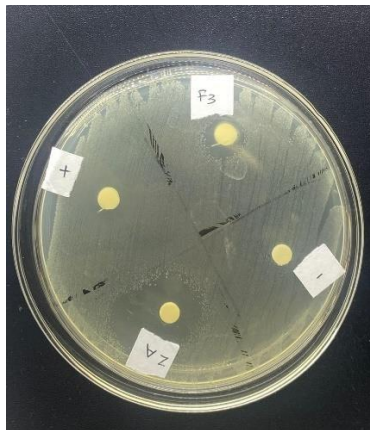
Hari 0



Setelah 72 jam

Lampiran 9 Dokumentasi Hasil Uji Aktivitas Antibakteri

Uji Aktivitas antibakteri



Lampiran 10 Hasil Statistik Evaluasi Reproduksiabilitas

Uji Daya Sebar

Tests of Normality							
	Reproduksibilit	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	as	Statistic	df	Sig.	Statistic	df	Sig.
Uji Daya Sebar	Batch 1	.196	3	.	.996	3	.878
	Batch 2	.187	3	.	.998	3	.915
	Batch 3	.353	3	.	.824	3	.174
a. Lilliefors Significance Correction							

Test of Homogeneity of Variances			
Uji Daya Sebar			
Levene Statistic	df1	df2	Sig.
.208	2	6	.818

ANOVA					
Uji Daya Sebar					
	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.010	2	.005	1.581	.281
Within Groups	.019	6	.003		
Total	.028	8			

Uji pH

Tests of Normality							
	Batch	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
pH	Batch 1	.222	3	.	.985	3	.769
	Batch 2	.311	3	.	.897	3	.375
	Batch 3	.292	3	.	.923	3	.463
a. Lilliefors Significance Correction							

Test of Homogeneity of Variances				
pH				
Levene Statistic	df1	df2	Sig.	
3.128	2	6	.117	

ANOVA					
pH					
	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.036	2	.018	.784	.499
Within Groups	.139	6	.023		
Total	.175	8			

Uji Viskositas

Tests of Normality							
	Batch	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Uji Viskositas	Batch 1	.219	3	.	.987	3	.780
	Batch 2	.253	3	.	.964	3	.637
	Batch 3	.175	3	.	1.000	3	1.000
a. Lilliefors Significance Correction							

Test of Homogeneity of Variances			
Uji Viskositas			
Levene Statistic	df1	df2	Sig.
1.169	2	6	.373

ANOVA					
Uji Viskositas					
	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	1866.667	2	933.333	2.897	.132
Within Groups	1933.333	6	322.222		
Total	3800.000	8			

Lampiran 11 Hasil Statistik Evaluasi Stabilitas *Real-Time*

Uji Daya Sebar

Tests of Normality							
		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Hari Ke	Statistic	df	Sig.	Statistic	df	Sig.
DayaSebar F0	Hari-0	.385	3	.	.750	3	.000
	Hari-7	.175	3	.	1.000	3	1.000
	Hari-14	.385	3	.	.750	3	.000
	Hari-21	.314	3	.	.893	3	.363
	Hari-28	.175	3	.	1.000	3	1.000
DayaSebar F1	Hari-0	.385	3	.	.750	3	.000
	Hari-7	.219	3	.	.987	3	.780
	Hari-14	.385	3	.	.750	3	.000
	Hari-21	.292	3	.	.923	3	.463
	Hari-28	.219	3	.	.987	3	.780
DayaSebarF2	Hari-0	.385	3	.	.750	3	.000
	Hari-7	.175	3	.	1.000	3	1.000
	Hari-14	.219	3	.	.987	3	.780
	Hari-21	.175	3	.	1.000	3	1.000
	Hari-28	.292	3	.	.923	3	.463
DayaSebarF3	Hari-0	.385	3	.	.750	3	.000
	Hari-7	.175	3	.	1.000	3	1.000
	Hari-14	.253	3	.	.964	3	.637
	Hari-21	.175	3	.	1.000	3	1.000
	Hari-28	.219	3	.	.987	3	.780
a. Lilliefors Significance Correction							

Test Statistics ^{a,b}				
	DayaSebar F0	DayaSebar F1	DayaSebarF2	DayaSebarF3
Chi-Square	13.548	13.548	13.406	13.406
df	4	4	4	4
Asymp. Sig.	.009	.009	.009	.009
a. Kruskal Wallis Test				
b. Grouping Variable: Hari Ke				

Formula 0

Each node shows the sample average rank of Hari Ke.

Sample1-Sample2	Test Statistic	Std. Error	Std. Test Statistic	Sig.	Adj.Sig.
Hari.0.Hari.7	-3.000	3.645	-.823	.410	1.000
Hari.0.Hari.14	-6.000	3.645	-1.646	.100	.997
Hari.0.Hari.21	-9.000	3.645	-2.469	.014	.135
Hari.0.Hari.28	-12.000	3.645	-3.292	.001	.010
Hari.7.Hari.14	-3.000	3.645	-.823	.410	1.000
Hari.7.Hari.21	-6.000	3.645	-1.646	.100	.997
Hari.7.Hari.28	-9.000	3.645	-2.469	.014	.135
Hari.14.Hari.21	-3.000	3.645	-.823	.410	1.000
Hari.14.Hari.28	-6.000	3.645	-1.646	.100	.997
Hari.21.Hari.28	-3.000	3.645	-.823	.410	1.000

Formula 1

Each node shows the sample average rank of Hari Ke.

Sample1-Sample2	Test Statistic	Std. Error	Std. Test Statistic	Sig.	Adj.Sig.
Hari.0.Hari.7	-3.000	3.645	-.823	.410	1.000
Hari.0.Hari.14	-6.000	3.645	-1.646	.100	.997
Hari.0.Hari.21	-9.000	3.645	-2.469	.014	.135
Hari.0.Hari.28	-12.000	3.645	-3.292	.001	.010
Hari.7.Hari.14	-3.000	3.645	-.823	.410	1.000
Hari.7.Hari.21	-6.000	3.645	-1.646	.100	.997
Hari.7.Hari.28	-9.000	3.645	-2.469	.014	.135
Hari.14.Hari.21	-3.000	3.645	-.823	.410	1.000
Hari.14.Hari.28	-6.000	3.645	-1.646	.100	.997
Hari.21.Hari.28	-3.000	3.645	-.823	.410	1.000

Formula 2

Each node shows the sample average rank of Hari Ke.

Sample1-Sample2	Test Statistic	Std. Error	Std. Test Statistic	Sig.	Adj.Sig.
Hari.0.Hari.7	-3.000	3.645	-.823	.410	1.000
Hari.0.Hari.14	-6.167	3.645	-1.692	.091	.907
Hari.0.Hari.21	-8.833	3.645	-2.423	.015	.154
Hari.0.Hari.28	-12.000	3.645	-3.292	.001	.010
Hari.7.Hari.14	-3.167	3.645	-.869	.385	1.000
Hari.7.Hari.21	-5.833	3.645	-1.600	.110	1.000
Hari.7.Hari.28	-9.000	3.645	-2.469	.014	.135
Hari.14.Hari.21	-2.667	3.645	-.732	.464	1.000
Hari.14.Hari.28	-5.833	3.645	-1.600	.110	1.000
Hari.21.Hari.28	-3.167	3.645	-.869	.385	1.000

Formula 3

Each node shows the sample average rank of Hari Ke.

Sample1-Sample2	Test Statistic	Std. Error	Std. Test Statistic	Sig.	Adj.Sig.
Hari.0.Hari.7	-3.000	3.645	-.823	.410	1.000
Hari.0.Hari.14	-6.167	3.645	-1.692	.091	.907
Hari.0.Hari.21	-8.833	3.645	-2.423	.015	.154
Hari.0.Hari.28	-12.000	3.645	-3.292	.001	.010
Hari.7.Hari.14	-3.167	3.645	-.869	.385	1.000
Hari.7.Hari.21	-5.833	3.645	-1.600	.110	1.000
Hari.7.Hari.28	-9.000	3.645	-2.469	.014	.135
Hari.14.Hari.21	-2.667	3.645	-.732	.464	1.000
Hari.14.Hari.28	-5.833	3.645	-1.600	.110	1.000
Hari.21.Hari.28	-3.167	3.645	-.869	.385	1.000

Each row tests the null hypothesis that the Sample 1 and Sample 2 distributions are the same.

Asymptotic significances (2-sided tests) are displayed. The significance level is .05.

Significance values have been adjusted by the Bonferroni correction for multiple tests.

Uji pH

Tests of Normality ^b							
	Hari Ke	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
pH F0	Hari-0	.385	3	.	.750	3	.000
	Hari-7	.385	3	.	.750	3	.000
	Hari-14	.385	3	.	.750	3	.000
	Hari-21	.385	3	.	.750	3	.000
	Hari-28	.385	3	.	.750	3	.000
pH F1	Hari-0	.385	3	.	.750	3	.000
	Hari-7	.385	3	.	.750	3	.000
	Hari-14	.385	3	.	.750	3	.000
	Hari-21	.385	3	.	.750	3	.000
	Hari-28	.385	3	.	.750	3	.000
pH F2	Hari-7	.385	3	.	.750	3	.000
	Hari-14	.175	3	.	1.000	3	1.000
	Hari-21	.253	3	.	.964	3	.637
	Hari-28	.385	3	.	.750	3	.000
pH F3	Hari-0	.385	3	.	.750	3	.000
	Hari-7	.385	3	.	.750	3	.000
	Hari-14	.253	3	.	.964	3	.637
	Hari-21	.385	3	.	.750	3	.000
	Hari-28	.385	3	.	.750	3	.000
a. Lilliefors Significance Correction							
b. pH F2 is constant when Hari Ke = Hari-0. It has been omitted.							

Test Statistics ^{a,b}				
	pH F0	pH F1	pH F2	pH F3
Chi-Square	13.622	13.622	13.646	13.597
df	4	4	4	4
Asymp. Sig.	.009	.009	.009	.009
a. Kruskal Wallis Test				
b. Grouping Variable: Hari Ke				

Formula 0

Each node shows the sample average rank of Hari Ke .

Sample1-Sample2	Test Statistic	Std. Error	Std. Test Statistic	Sig.	Adj.Sig.
Hari.28.Hari.21	3.000	3.635	.825	.409	1.000
Hari.28.Hari.14	6.000	3.635	1.651	.099	.988
Hari.28.Hari.7	9.000	3.635	2.476	.013	.133
Hari.28.Hari.0	12.000	3.635	3.301	.001	.010
Hari.21.Hari.14	3.000	3.635	.825	.409	1.000
Hari.21.Hari.7	6.000	3.635	1.651	.099	.988
Hari.21.Hari.0	9.000	3.635	2.476	.013	.133
Hari.14.Hari.7	3.000	3.635	.825	.409	1.000
Hari.14.Hari.0	6.000	3.635	1.651	.099	.988
Hari.7.Hari.0	3.000	3.635	.825	.409	1.000

Formula 1

Each node shows the sample average rank of Hari Ke .

Sample1-Sample2	Test Statistic	Std. Error	Std. Test Statistic	Sig.	Adj.Sig.
Hari.28.Hari.21	3.000	3.635	.825	.409	1.000
Hari.28.Hari.14	6.000	3.635	1.651	.099	.988
Hari.28.Hari.7	9.000	3.635	2.476	.013	.133
Hari.28.Hari.0	12.000	3.635	3.301	.001	.010
Hari.21.Hari.14	3.000	3.635	.825	.409	1.000
Hari.21.Hari.7	6.000	3.635	1.651	.099	.988
Hari.21.Hari.0	9.000	3.635	2.476	.013	.133
Hari.14.Hari.7	3.000	3.635	.825	.409	1.000
Hari.14.Hari.0	6.000	3.635	1.651	.099	.988
Hari.7.Hari.0	3.000	3.635	.825	.409	1.000

Formula 2

Each node shows the sample average rank of Hari Ke .

Sample1-Sample2	Test Statistic	Std. Error	Std. Test Statistic	Sig.	Adj.Sig.
Hari.28.Hari.21	3.000	3.632	.826	.409	1.000
Hari.28.Hari.14	6.000	3.632	1.652	.099	.985
Hari.28.Hari.7	9.000	3.632	2.478	.013	.132
Hari.28.Hari.0	12.000	3.632	3.304	.001	.010
Hari.21.Hari.14	3.000	3.632	.826	.409	1.000
Hari.21.Hari.7	6.000	3.632	1.652	.099	.985
Hari.21.Hari.0	9.000	3.632	2.478	.013	.132
Hari.14.Hari.7	3.000	3.632	.826	.409	1.000
Hari.14.Hari.0	6.000	3.632	1.652	.099	.985
Hari.7.Hari.0	3.000	3.632	.826	.409	1.000

Formula 3

Each node shows the sample average rank of Hari Ke .

Sample1-Sample2	Test Statistic	Std. Error	Std. Test Statistic	Sig.	Adj.Sig.
Hari.28.Hari.21	3.000	3.638	.825	.410	1.000
Hari.28.Hari.14	6.000	3.638	1.649	.099	.991
Hari.28.Hari.7	9.000	3.638	2.474	.013	.134
Hari.28.Hari.0	12.000	3.638	3.298	.001	.010
Hari.21.Hari.14	3.000	3.638	.825	.410	1.000
Hari.21.Hari.7	6.000	3.638	1.649	.099	.991
Hari.21.Hari.0	9.000	3.638	2.474	.013	.134
Hari.14.Hari.7	3.000	3.638	.825	.410	1.000
Hari.14.Hari.0	6.000	3.638	1.649	.099	.991
Hari.7.Hari.0	3.000	3.638	.825	.410	1.000

Each row tests the null hypothesis that the Sample 1 and Sample 2 distributions are the same.

Asymptotic significances (2-sided tests) are displayed. The significance level is .05.

Significance values have been adjusted by the Bonferroni correction for multiple tests.

Uji Viskositas

Tests of Normality							
	Hari-Ke	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Viskositas F0	Hari-0	.314	3	.	.893	3	.363
	Hari-7	.385	3	.	.750	3	.000
	Hari-14	.253	3	.	.964	3	.637
	Hari-21	.385	3	.	.750	3	.000
	Hari-28	.175	3	.	1.000	3	1.000
Viskositas F1	Hari-0	.175	3	.	1.000	3	1.000
	Hari-7	.385	3	.	.750	3	.000
	Hari-14	.219	3	.	.987	3	.780
	Hari-21	.314	3	.	.893	3	.363
	Hari-28	.328	3	.	.871	3	.298
Viskositas F2	Hari-0	.314	3	.	.893	3	.363
	Hari-7	.219	3	.	.987	3	.780
	Hari-14	.314	3	.	.893	3	.363
	Hari-21	.328	3	.	.871	3	.298
	Hari-28	.232	3	.	.980	3	.726
ViskositasF3	Hari-0	.314	3	.	.893	3	.363
	Hari-7	.385	3	.	.750	3	.000
	Hari-14	.385	3	.	.750	3	.000
	Hari-21	.385	3	.	.750	3	.000
	Hari-28	.385	3	.	.750	3	.000
a. Lilliefors Significance Correction							

Test Statistics ^{a,b}				
	Viskositas F0	Viskositas F1	Viskositas F2	ViskositasF3
Chi-Square	9.918	13.524	13.500	13.597
df	4	4	4	4
Asymp. Sig.	.042	.009	.009	.009
a. Kruskal Wallis Test				
b. Grouping Variable: Hari-Ke				

Formula 0

Each node shows the sample average rank of Hari-Ke.

Sample1-Sample2	Test Statistic	Std. Error	Std. Test Statistic	Sig.	Adj.Sig.
Hari.28.Hari.14	4.000	3.648	1.096	.273	1.000
Hari.28.Hari.7	7.000	3.648	1.919	.055	.550
Hari.28.Hari.21	9.000	3.648	2.467	.014	.136
Hari.28.Hari.0	10.000	3.648	2.741	.006	.061
Hari.14.Hari.7	3.000	3.648	.822	.411	1.000
Hari.14.Hari.21	-5.000	3.648	-1.371	.171	1.000
Hari.14.Hari.0	6.000	3.648	1.645	.100	1.000
Hari.7.Hari.21	-2.000	3.648	-.548	.584	1.000
Hari.7.Hari.0	3.000	3.648	.822	.411	1.000
Hari.21.Hari.0	1.000	3.648	.274	.784	1.000

Formula 1

Each node shows the sample average rank of Hari-Ke.

Sample1-Sample2	Test Statistic	Std. Error	Std. Test Statistic	Sig.	Adj.Sig.
Hari.28.Hari.21	3.000	3.648	.822	.411	1.000
Hari.28.Hari.14	6.000	3.648	1.645	.100	1.000
Hari.28.Hari.7	9.000	3.648	2.467	.014	.136
Hari.28.Hari.0	12.000	3.648	3.289	.001	.010
Hari.21.Hari.14	3.000	3.648	.822	.411	1.000
Hari.21.Hari.7	6.000	3.648	1.645	.100	1.000
Hari.21.Hari.0	9.000	3.648	2.467	.014	.136
Hari.14.Hari.7	3.000	3.648	.822	.411	1.000
Hari.14.Hari.0	6.000	3.648	1.645	.100	1.000
Hari.7.Hari.0	3.000	3.648	.822	.411	1.000

Formula 2

Each node shows the sample average rank of Hari-Ke.

Sample1-Sample2	Test Statistic	Std. Error	Std. Test Statistic	Sig.	Adj.Sig.
Hari.28.Hari.21	3.000	3.651	.822	.411	1.000
Hari.28.Hari.14	6.000	3.651	1.643	.100	1.000
Hari.28.Hari.7	9.000	3.651	2.465	.014	.137
Hari.28.Hari.0	12.000	3.651	3.286	.001	.010
Hari.21.Hari.14	3.000	3.651	.822	.411	1.000
Hari.21.Hari.7	6.000	3.651	1.643	.100	1.000
Hari.21.Hari.0	9.000	3.651	2.465	.014	.137
Hari.14.Hari.7	3.000	3.651	.822	.411	1.000
Hari.14.Hari.0	6.000	3.651	1.643	.100	1.000
Hari.7.Hari.0	3.000	3.651	.822	.411	1.000

Formula 3

Each node shows the sample average rank of Hari-Ke.

Sample1-Sample2	Test Statistic	Std. Error	Std. Test Statistic	Sig.	Adj.Sig.
Hari.28.Hari.21	3.000	3.638	.825	.410	1.000
Hari.28.Hari.14	6.000	3.638	1.649	.099	.991
Hari.28.Hari.7	9.000	3.638	2.474	.013	.134
Hari.28.Hari.0	12.000	3.638	3.298	.001	.010
Hari.21.Hari.14	3.000	3.638	.825	.410	1.000
Hari.21.Hari.7	6.000	3.638	1.649	.099	.991
Hari.21.Hari.0	9.000	3.638	2.474	.013	.134
Hari.14.Hari.7	3.000	3.638	.825	.410	1.000
Hari.14.Hari.0	6.000	3.638	1.649	.099	.991
Hari.7.Hari.0	3.000	3.638	.825	.410	1.000

Each row tests the null hypothesis that the Sample 1 and Sample 2 distributions are the same.

Asymptotic significances (2-sided tests) are displayed. The significance level is .05.

Significance values have been adjusted by the Bonferroni correction for multiple tests.

Lampiran 12 Hasil Statistik Evaluasi Stabilitas *Freeze-Thaw*

Uji Daya Sebar

Tests of Normality ^{b,c,d}							
	Siklus Ke	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Daya Sebar F0	Siklus 1	.385	3	.	.750	3	.000
	Siklus 2	.385	3	.	.750	3	.000
	Siklus 3	.253	3	.	.964	3	.637
	Siklus 4	.385	3	.	.750	3	.000
	Siklus 6	.385	3	.	.750	3	.000
Daya Sebar F1	Siklus 1	.385	3	.	.750	3	.000
	Siklus 2	.253	3	.	.964	3	.637
	Siklus 4	.253	3	.	.964	3	.637
	Siklus 5	.385	3	.	.750	3	.000
	Siklus 6	.253	3	.	.964	3	.637
Daya Sebar F2	Siklus 1	.385	3	.	.750	3	.000
	Siklus 2	.385	3	.	.750	3	.000
	Siklus 3	.385	3	.	.750	3	.000
	Siklus 4	.385	3	.	.750	3	.000
	Siklus 5	.385	3	.	.750	3	.000
	Siklus 6	.385	3	.	.750	3	.000
Daya Sebar F3	Siklus 1	.385	3	.	.750	3	.000
	Siklus 2	.385	3	.	.750	3	.000
	Siklus 3	.385	3	.	.750	3	.000
	Siklus 4	.385	3	.	.750	3	.000

	Siklus 5	.253	3	.	.964	3	.637
a. Lilliefors Significance Correction							
b. Daya Sebar F0 is constant when Siklus Ke = Siklus 5. It has been omitted.							
c. Daya Sebar F1 is constant when Siklus Ke = Siklus 3. It has been omitted.							
d. Daya Sebar F3 is constant when Siklus Ke = Siklus 6. It has been omitted.							

Test Statistics ^{a,b}				
	Daya Sebar F0	Daya Sebar F1	Daya Sebar F2	Daya Sebar F3
Chi-Square	16.717	16.682	16.682	16.717
df	5	5	5	5
Asymp. Sig.	.005	.005	.005	.005
a. Kruskal Wallis Test				
b. Grouping Variable: Siklus Ke				

Formula 0

Each node shows the sample average rank of Siklus Ke.

Sample1-Sample2	Test Statistic	Std. Error	Std. Test Statistic	Sig.	Adj.Sig.
Siklus 1-1	-3.000	4.341	-1.691	.489	1.000
Siklus 1-2	-6.000	4.341	-2.071	.038	.575
Siklus 1-3	-12.000	4.341	-2.764	.006	.086
Siklus 1-4	-15.000	4.341	-3.456	.000	.008
Siklus 1-5	-6.000	4.341	-1.691	.489	1.000
Siklus 1-6	-9.000	4.341	-2.071	.038	.575
Siklus 2-1	-12.000	4.341	-2.764	.006	.086
Siklus 2-2	-6.000	4.341	-1.691	.489	1.000
Siklus 2-3	-9.000	4.341	-2.071	.038	.575
Siklus 2-4	-3.000	4.341	-1.691	.489	1.000
Siklus 2-5	-6.000	4.341	-1.691	.489	1.000
Siklus 2-6	-3.000	4.341	-1.691	.489	1.000

Formula 1

Each node shows the sample average rank of Siklus Ke.

Sample1-Sample2	Test Statistic	Std. Error	Std. Test Statistic	Sig.	Adj.Sig.
Siklus 1-1	-3.000	4.345	-1.690	.490	1.000
Siklus 1-2	-6.000	4.345	-2.071	.038	.575
Siklus 1-3	-12.000	4.345	-2.762	.006	.086
Siklus 1-4	-15.000	4.345	-3.452	.000	.008
Siklus 1-5	-6.000	4.345	-1.690	.490	1.000
Siklus 1-6	-9.000	4.345	-2.071	.038	.575
Siklus 2-1	-12.000	4.345	-2.762	.006	.086
Siklus 2-2	-6.000	4.345	-1.690	.490	1.000
Siklus 2-3	-9.000	4.345	-2.071	.038	.575
Siklus 2-4	-3.000	4.345	-1.690	.490	1.000
Siklus 2-5	-6.000	4.345	-1.690	.490	1.000
Siklus 2-6	-3.000	4.345	-1.690	.490	1.000

Formula 2

Each node shows the sample average rank of Siklus Ke.

Sample1-Sample2	Test Statistic	Std. Error	Std. Test Statistic	Sig.	Adj.Sig.
Siklus 1-Siklus 2	-3.000	4.345	-.690	.490	1.000
Siklus 1-Siklus 3	-9.000	4.345	-2.071	.038	.572
Siklus 1-Siklus 4	-12.000	4.345	-2.762	.006	.086
Siklus 1-Siklus 5	-15.000	4.345	-3.452	.001	.008
Siklus 1-Siklus 6	-3.000	4.345	-.690	.490	1.000
Siklus 2-Siklus 3	-6.000	4.345	-1.381	.167	1.000
Siklus 2-Siklus 4	-12.000	4.345	-2.762	.006	.086
Siklus 2-Siklus 5	-3.000	4.345	-.690	.490	1.000
Siklus 2-Siklus 6	-6.000	4.345	-1.381	.167	1.000
Siklus 3-Siklus 4	-9.000	4.345	-2.071	.038	.572
Siklus 3-Siklus 5	-3.000	4.345	-.690	.490	1.000
Siklus 3-Siklus 6	-6.000	4.345	-1.381	.167	1.000
Siklus 4-Siklus 5	-3.000	4.345	-.690	.490	1.000
Siklus 4-Siklus 6	-6.000	4.345	-1.381	.167	1.000
Siklus 5-Siklus 6	-3.000	4.345	-.690	.490	1.000

Formula 3

Each node shows the sample average rank of Siklus Ke.

Sample1-Sample2	Test Statistic	Std. Error	Std. Test Statistic	Sig.	Adj.Sig.
Siklus 1-Siklus 2	-3.000	4.341	-.691	.489	1.000
Siklus 1-Siklus 3	-9.000	4.341	-2.073	.038	.572
Siklus 1-Siklus 4	-12.000	4.341	-2.764	.006	.086
Siklus 1-Siklus 5	-15.000	4.341	-3.456	.001	.008
Siklus 1-Siklus 6	-3.000	4.341	-.691	.489	1.000
Siklus 2-Siklus 3	-6.000	4.341	-1.382	.167	1.000
Siklus 2-Siklus 4	-12.000	4.341	-2.764	.006	.086
Siklus 2-Siklus 5	-3.000	4.341	-.691	.489	1.000
Siklus 2-Siklus 6	-6.000	4.341	-1.382	.167	1.000
Siklus 3-Siklus 4	-9.000	4.341	-2.073	.038	.572
Siklus 3-Siklus 5	-3.000	4.341	-.691	.489	1.000
Siklus 3-Siklus 6	-6.000	4.341	-1.382	.167	1.000
Siklus 4-Siklus 5	-3.000	4.341	-.691	.489	1.000
Siklus 4-Siklus 6	-6.000	4.341	-1.382	.167	1.000
Siklus 5-Siklus 6	-3.000	4.341	-.691	.489	1.000

Each row tests the null hypothesis that the Sample 1 and Sample 2 distributions are the same.

Asymptotic significances (2-sided tests) are displayed. The significance level is .05.

Significance values have been adjusted by the Bonferroni correction for multiple tests.

Uji pH

Tests of Normality ^b							
		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
pH F0	Siklus 1	.385	3	.	.750	3	.000
	Siklus 2	.385	3	.	.750	3	.000
	Siklus 3	.253	3	.	.964	3	.637
	Siklus 4	.175	3	.	1.000	3	1.000
	Siklus 6	.175	3	.	1.000	3	1.000
pH F1	Siklus 1	.385	3	.	.750	3	.000
	Siklus 2	.385	3	.	.750	3	.000
	Siklus 3	.385	3	.	.750	3	.000
	Siklus 4	.385	3	.	.750	3	.000
	Siklus 5	.385	3	.	.750	3	.000
	Siklus 6	.385	3	.	.750	3	.000
pH F2	Siklus 1	.385	3	.	.750	3	.000

	Siklus 2	.385	3	.	.750	3	.000
	Siklus 3	.385	3	.	.750	3	.000
	Siklus 4	.385	3	.	.750	3	.000
	Siklus 5	.253	3	.	.964	3	.637
	Siklus 6	.253	3	.	.964	3	.637
pH F3	Siklus 1	.175	3	.	1.000	3	1.000
	Siklus 2	.385	3	.	.750	3	.000
	Siklus 3	.385	3	.	.750	3	.000
	Siklus 4	.379	3	.	.765	3	.033
	Siklus 5	.253	3	.	.964	3	.637
	Siklus 6	.385	3	.	.750	3	.000
a. Lilliefors Significance Correction							
b. pH F0 is constant when Siklus Ke = Siklus 5. It has been omitted.							

Test Statistics ^{a,b}				
	pH F0	pH F1	pH F2	pH F3
Chi-Square	16.682	16.682	16.648	14.096
df	5	5	5	5
Asymp. Sig.	.005	.005	.005	.015
a. Kruskal Wallis Test				
b. Grouping Variable: Siklus Ke				

Formula 0

Each node shows the sample average rank of Siklus Ke.

Sample1-Sample2	Test Statistic	Std. Error	Std. Test Statistic	Sig.	Adj.Sig.
Siklus 6-Siklus 5	3.000	4.345	.690	.490	1.000
Siklus 6-Siklus 4	6.000	4.345	1.381	.167	1.000
Siklus 6-Siklus 3	9.000	4.345	2.071	.038	.575
Siklus 6-Siklus 2	12.000	4.345	2.762	.006	.068
Siklus 6-Siklus 1	3.000	4.345	.690	.490	1.000
Siklus 5-Siklus 4	6.000	4.345	1.381	.167	1.000
Siklus 5-Siklus 3	9.000	4.345	2.071	.038	.575
Siklus 5-Siklus 2	12.000	4.345	2.762	.006	.068
Siklus 5-Siklus 1	3.000	4.345	.690	.490	1.000
Siklus 4-Siklus 3	6.000	4.345	1.381	.167	1.000
Siklus 4-Siklus 2	9.000	4.345	2.071	.038	.575
Siklus 4-Siklus 1	3.000	4.345	.690	.490	1.000
Siklus 3-Siklus 2	6.000	4.345	1.381	.167	1.000
Siklus 3-Siklus 1	3.000	4.345	.690	.490	1.000

Formula 1

Formula 2

Formula 3

Each node shows the sample average rank of Siklus Ke.

Sample1-Sample2	Test Statistic	Std. Error	Std. Test Statistic	Sig.	Adj.Sig.
Siklus 6-Siklus 5	3.000	4.352	.689	.491	1.000
Siklus 6-Siklus 4	8.000	4.352	1.838	.066	.991
Siklus 6-Siklus 3	9.000	4.352	2.065	.039	.580
Siklus 6-Siklus 2	11.000	4.352	2.527	.011	.172
Siklus 6-Siklus 1	12.000	4.352	2.747	.004	.069
Siklus 5-Siklus 4	5.000	4.352	1.149	.251	1.000
Siklus 5-Siklus 3	8.000	4.352	1.838	.066	.991
Siklus 5-Siklus 2	11.000	4.352	2.527	.011	.172
Siklus 5-Siklus 1	11.000	4.352	2.527	.011	.172
Siklus 4-Siklus 3	3.000	4.352	.689	.491	1.000
Siklus 4-Siklus 2	5.000	4.352	1.149	.251	1.000
Siklus 4-Siklus 1	5.000	4.352	1.149	.251	1.000
Siklus 3-Siklus 2	3.000	4.352	.689	.491	1.000
Siklus 3-Siklus 1	3.000	4.352	.689	.491	1.000

Each row tests the null hypothesis that the Sample 1 and Sample 2 distributions are the same.

Asymptotic significances (2-sided tests) are displayed. The significance level is .05.

Significance values have been adjusted by the Bonferroni correction for multiple tests.

Uji Viskositas

Tests of Normality ^{b,c}							
	Siklus Ke	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Viskos F0	Siklus 1	.385	3	.	.750	3	.000
	Siklus 2	.385	3	.	.750	3	.000
	Siklus 3	.385	3	.	.750	3	.000
	Siklus 4	.385	3	.	.750	3	.000
	Siklus 5	.385	3	.	.750	3	.000

	Siklus 6	.385	3	.	.750	3	.000
Viskos F1	Siklus 1	.219	3	.	.987	3	.780
	Siklus 3	.175	3	.	1.000	3	1.000
	Siklus 5	.385	3	.	.750	3	.000
	Siklus 6	.385	3	.	.750	3	.000
Viskos F2	Siklus 1	.219	3	.	.987	3	.780
	Siklus 2	.385	3	.	.750	3	.000
	Siklus 3	.385	3	.	.750	3	.000
	Siklus 4	.385	3	.	.750	3	.000
	Siklus 5	.385	3	.	.750	3	.000
	Siklus 6	.385	3	.	.750	3	.000
Viskos F3	Siklus 1	.385	3	.	.750	3	.000
	Siklus 2	.385	3	.	.750	3	.000
	Siklus 3	.385	3	.	.750	3	.000
	Siklus 4	.385	3	.	.750	3	.000
	Siklus 5	.385	3	.	.750	3	.000
	Siklus 6	.385	3	.	.750	3	.000
a. Lilliefors Significance Correction							
b. Viskos F1 is constant when Siklus Ke = Siklus 2. It has been omitted.							
c. Viskos F1 is constant when Siklus Ke = Siklus 4. It has been omitted.							

Test Statistics ^{a,b}				
	Viskos F0	Viskos F1	Viskos F2	Viskos F3
Chi-Square	16.682	16.752	16.665	16.682
df	5	5	5	5
Asymp. Sig.	.005	.005	.005	.005
a. Kruskal Wallis Test				
b. Grouping Variable: Siklus Ke				

Formula 0

Each node shows the sample average rank of Siklus Ke.

Sample1-Sample2	Test Statistic	Std. Error	Std. Test Statistic	Sig.	Adj.Sig.
Siklus 6-Siklus 5	3.000	4.345	1.690	.490	1.000
Siklus 6-Siklus 4	6.000	4.345	1.381	.167	1.000
Siklus 6-Siklus 3	9.000	4.345	2.071	.038	.575
Siklus 6-Siklus 2	12.000	4.345	2.762	.007	.068
Siklus 6-Siklus 1	15.000	4.345	3.452	.001	.008
Siklus 5-Siklus 4	3.000	4.345	1.690	.490	1.000
Siklus 5-Siklus 3	6.000	4.345	1.381	.167	1.000
Siklus 5-Siklus 2	9.000	4.345	2.071	.038	.575
Siklus 5-Siklus 1	12.000	4.345	2.762	.006	.086
Siklus 4-Siklus 3	3.000	4.345	1.690	.490	1.000
Siklus 4-Siklus 2	6.000	4.345	1.381	.167	1.000
Siklus 4-Siklus 1	9.000	4.345	2.071	.038	.575
Siklus 3-Siklus 2	3.000	4.345	1.690	.490	1.000
Siklus 3-Siklus 1	6.000	4.345	1.381	.167	1.000
Siklus 2-Siklus 1	3.000	4.345	1.690	.490	1.000

Formula 1

Each node shows the sample average rank of Siklus Ke.

Sample1-Sample2	Test Statistic	Std. Error	Std. Test Statistic	Sig.	Adj.Sig.
Siklus 6-Siklus 5	3.000	4.336			
Siklus 6-Siklus 4	6.000	4.336			
Siklus 6-Siklus 3	9.000	4.336			
Siklus 6-Siklus 2	12.000	4.336			
Siklus 6-Siklus 1	15.000	4.336			
Siklus 5-Siklus 4	3.000	4.336			
Siklus 5-Siklus 3	6.000	4.336			
Siklus 5-Siklus 2	9.000	4.336			
Siklus 5-Siklus 1	12.000	4.336			
Siklus 4-Siklus 3	3.000	4.336			
Siklus 4-Siklus 2	6.000	4.336			
Siklus 4-Siklus 1	9.000	4.336			
Siklus 3-Siklus 2	3.000	4.336			
Siklus 3-Siklus 1	6.000	4.336			
Siklus 2-Siklus 1	3.000	4.336			

Formula 2

Each node shows the sample average rank of Siklus Ke.

Sample1-Sample2	Test Statistic	Std. Error	Std. Test Statistic	Sig.	Adj.Sig.
Siklus 6-Siklus 5	3.000	4.348	1.690	.490	1.000
Siklus 6-Siklus 4	6.000	4.348	1.380	.168	1.000
Siklus 6-Siklus 3	9.000	4.348	2.070	.038	.577
Siklus 6-Siklus 2	12.000	4.348	2.760	.005	.087
Siklus 6-Siklus 1	15.000	4.348	3.450	.001	.008
Siklus 5-Siklus 4	3.000	4.348	1.690	.490	1.000
Siklus 5-Siklus 3	6.000	4.348	1.380	.168	1.000
Siklus 5-Siklus 2	9.000	4.348	2.070	.038	.577
Siklus 5-Siklus 1	12.000	4.348	2.760	.006	.086
Siklus 4-Siklus 3	3.000	4.348	1.690	.490	1.000
Siklus 4-Siklus 2	6.000	4.348	1.380	.168	1.000
Siklus 4-Siklus 1	9.000	4.348	2.070	.038	.577
Siklus 3-Siklus 2	3.000	4.348	1.690	.490	1.000
Siklus 3-Siklus 1	6.000	4.348	1.380	.168	1.000
Siklus 2-Siklus 1	3.000	4.348	1.690	.490	1.000

Formula 3

Each node shows the sample average rank of Siklus Ke.

Sample1-Sample2	Test Statistic	Std. Error	Std. Test Statistic	Sig.	Adj.Sig.
Siklus 6-Siklus 5	3.000	4.345	1.690	.490	1.000
Siklus 6-Siklus 4	6.000	4.345	1.381	.167	1.000
Siklus 6-Siklus 3	9.000	4.345	2.071	.038	.575
Siklus 6-Siklus 2	12.000	4.345	2.762	.007	.068
Siklus 6-Siklus 1	15.000	4.345	3.452	.001	.008
Siklus 5-Siklus 4	3.000	4.345	1.690	.490	1.000
Siklus 5-Siklus 3	6.000	4.345	1.381	.167	1.000
Siklus 5-Siklus 2	9.000	4.345	2.071	.038	.575
Siklus 5-Siklus 1	12.000	4.345	2.762	.006	.086
Siklus 4-Siklus 3	3.000	4.345	1.690	.490	1.000
Siklus 4-Siklus 2	6.000	4.345	1.381	.167	1.000
Siklus 4-Siklus 1	9.000	4.345	2.071	.038	.575
Siklus 3-Siklus 2	3.000	4.345	1.690	.490	1.000
Siklus 3-Siklus 1	6.000	4.345	1.381	.167	1.000
Siklus 2-Siklus 1	3.000	4.345	1.690	.490	1.000

Each row tests the null hypothesis that the Sample 1 and Sample 2 distributions are the same.
Asymptotic significances (2-sided tests) are displayed. The significance level is .05.
Significance values have been adjusted by the Bonferroni correction for multiple tests.

Lampiran 13 Curriculum Vitae



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TENTANG SAYA

Saya remaja berusia 22 tahun. Saya baru saja lulus sebagai sarjana farmasi di Universitas Bhakti Kencana. Saya sangat suka mempelajari hal-hal baru. Saya memiliki kemampuan dalam bekerja sama dengan tim, memiliki jiwa kepemimpinan.

PENGALAMAN ORGANISASI

• 2021 - 2023

BEM KEMA FF UBK

Anggota Departemen Minat Dan Bakat

Melakukan komunikasi dan koordinasi dengan seluruh ormawa di fakultas farmasi dan melaksanakan program kerja untuk seluruh mahasiswa

Wakil Gubernur

Melakukan koordinasi dengan pihak internal maupun eksternal kampus, dan menjadi penanggung jawab seluruh program kerja.

PENDIDIKAN

• 2017 - 2020

SMK YPF Bandung

Jurusan Farmasi Komunitas

• 2020 - 2024

Universitas Bhakti Kencana Bandung

S1 Farmasi

IPK : 3,62 dari 4,00

PENGALAMAN KERJA

• Juni 2019 - Agustus 2019

Klinik Padjajaran Universitas Padjajaran

Bekerja di bagian apotek dan gudang penyimpanan obat. Saya membantu proses penyiapan obat, pencatatan obat, dan membantu pelayanan.

• Februari 2022 - April 2022

Apotek Nisma Ujung Berung

Bekerja di bagian apotek, saya melakukan proses penyiapan obat, pencatatan obat, melayani pasien, dan melakukan pelayanan di e-commerce.

KEAHLIAN

- Microsoft Word
- Microsoft Excel
- Microsoft Powerpoint
- Canva
- Leadership
- Public Speaking
- Voice Over