

LAMPIRAN

Lampiran 1. Hasil Cek Plagiarisme Turnitin

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Lampiran 2. Hasil Evaluasi Optimasi Basis Krim Alas Bedak

a. Organoleptik

Parameter	F1	F2	F3
Bentuk	Cair	Sedikit kental	Agak kental
Warna	Coklat muda kekuningan	Coklat muda kekuningan	Coklat muda kekuningan
Aroma	Tidak ada	Tidak ada	Tidak ada



b. Homogenitas

Replikasi	F1	F2	F3
1	Homogen	Homogen	Homogen
2	Homogen	Homogen	Homogen
3	Homogen	Homogen	Homogen



c. pH

Replikasi	F1	F2	F3
1	6	6,35	6,04
2	6,05	6,31	6,33
3	6,03	6,44	6,39
Rata-rata $\pm$ SD	6,03 $\pm$ 0,02	6,33 $\pm$ 0,02	6,42 $\pm$ 0,02

d. Viskositas

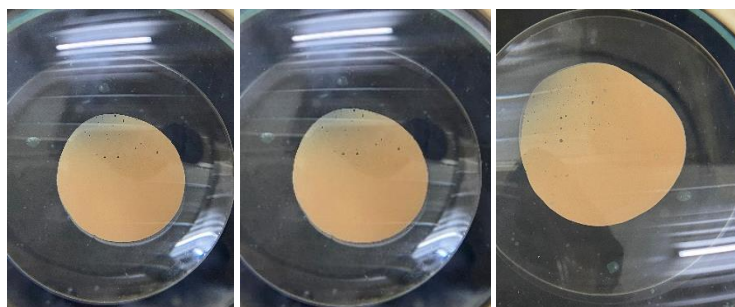
Replikasi	F1	F2	F3
1	2927	3263	3317
2	2897	3230	3277
3	2857	3277	3295
Rata-rata $\pm$ SD	2893,67 $\pm$ 35,12	3256,67 $\pm$ 24,13	3296,33 $\pm$ 20,03

e. Daya Sebar

Replikasi	F1	F2	F3
1	6,7	5,3	6,8
2	6,9	5,5	5,4
3	6,8	5,3	5,1
Rata-rata $\pm$ SD	6,89 $\pm$ 0,10	5,40 $\pm$ 0,10	5,13 $\pm$ 0,15

f. Dispersi Warna

Replikasi	F1	F2	F3
1	Terdispersi	Terdispersi	Terdispersi
2	Terdispersi	Terdispersi	Terdispersi
3	Terdispersi	Terdispersi	Terdispersi



Lampiran 3. Hasil Evaluasi Reprodusibilitas Krim Alas Bedak

a. Pengukuran pH

Formula	Hari ke-	Replikasi			Rata-rata	SD	Rata-rata $\pm$ SD
		1	2	3			
1	1	6,33	6,33	6,32	6,33	0,02	6,33 $\pm$ 0,02
	2	6,36	6,33	6,35	6,35	0,02	6,35 $\pm$ 0,02
	3	6,36	6,37	6,35	6,36	0,01	6,36 $\pm$ 0,01
2	1	6,37	6,36	6,34	6,36	0,02	6,35 $\pm$ 0,02
	2	6,35	6,36	6,32	6,34	0,02	6,34 $\pm$ 0,02
	3	6,37	6,38	6,38	6,38	0,01	6,38 $\pm$ 0,01
3	1	6,35	6,36	6,36	6,36	0,01	6,36 $\pm$ 0,01
	2	6,32	6,29	6,33	6,31	0,02	6,31 $\pm$ 0,02
	3	6,38	6,35	6,36	6,36	0,02	6,36 $\pm$ 0,02

b. Pengukuran Viskositas

Formula	Hari ke-	Replikasi			Rata-rata	SD	Rata-rata $\pm$ SD
		1	2	3			
1	1	4480	4477	4482	4479,67	2,52	4479,67 $\pm$ 2,52
	2	4463	4470	4473	4468,67	5,13	4468,67 $\pm$ 5,13
	3	4477	4473	4481	4477,00	4,00	4477,00 $\pm$ 4,00
2	1	4477	4473	4478	4476,00	2,65	4476,00 $\pm$ 2,65
	2	4483	4484	4481	4482,67	1,53	4482,67 $\pm$ 1,53
	3	4481	4479	4483	4481,00	2,00	4481,00 $\pm$ 2,00
3	1	4483	4481	4478	4480,67	2,52	4482,67 $\pm$ 2,52
	2	4485	4483	4480	4482,67	2,52	4482,67 $\pm$ 2,52
	3	4483	4479	4481	4481,00	2,00	4481,00 $\pm$ 2,00

c. Pengukuran Daya Sebar

Formula	Hari ke-	Replikasi			Rata-rata	SD	Rata-rata $\pm$ SD
		1	2	3			
1	1	5,36	5,36	5,38	5,37	0,01	5,37 $\pm$ 0,01
	2	5,37	5,36	5,36	5,36	0,01	5,36 $\pm$ 0,01
	3	5,36	5,34	5,36	5,35	0,01	5,35 $\pm$ 0,01
2	1	5,39	5,42	5,44	5,42	0,03	5,42 $\pm$ 0,03
	2	5,38	5,37	5,38	5,38	0,01	5,38 $\pm$ 0,01
	3	5,37	5,39	5,39	5,38	0,01	5,38 $\pm$ 0,01
3	1	5,38	5,36	5,39	5,38	0,02	5,38 $\pm$ 0,02
	2	5,38	5,38	5,37	5,38	0,01	5,38 $\pm$ 0,01
	3	5,38	5,36	5,36	5,37	0,01	5,37 $\pm$ 0,01

Lampiran 4. Hasil Pengujian Organoleptik Selama 28 Hari pada Suhu Kamar

Hari ke-	Pengamatan	F0	F1	F2	F3	F4	F5
1	Bentuk	SS	SS	SS	SS	SS	SS
	Warna	CMK	CMK	CMK	CMK	CMK	CMK
	Aroma	TB	TB	TB	TB	TB	TB
	Tekstur	SK	K	K	K	K	K
7	Bentuk	SS	SS	SS	SS	SS	SS
	Warna	CMK	CMK	CMK	CMK	CMK	CMK
	Aroma	TB	TB	TB	TB	TB	TB
	Tekstur	SK	K	K	K	K	K
14	Bentuk	SS	SS	SS	SS	SS	SS
	Warna	CMK	CMK	CMK	CMK	CMK	CMK
	Aroma	TB	TB	TB	TB	TB	TB
	Tekstur	SK	K	K	K	K	K
21	Bentuk	SS	SS	SS	SS	SS	SS
	Warna	CMK	CMK	CMK	CMK	CMK	CMK
	Aroma	TB	TB	TB	TB	TB	TB
	Tekstur	C	K	K	K	K	SK
28	Bentuk	SS	SS	SS	SS	SS	SS
	Warna	CMK	CMK	CMK	CMK	CMK	CMK
	Aroma	TB	TB	TB	TB	TB	TB
	Tekstur	C	K	K	K	K	SK

Keterangan:

CMK = Coklat Muda Kekuningan

TB = Tidak Beraroma

SS = Semi Solid

C = Cair

SK = Sedikit Kental

K = Kental

Lampiran 5. Hasil Pengujian Homogenitas Selama 28 Hari pada Suhu Kamar

Hari ke-	Homogenitas					
	F0	F1	F2	F3	F4	F5
0	H	H	H	H	H	H
7	H	H	H	H	H	H
14	H	H	H	H	H	H
21	H	H	H	H	H	H
28	H	H	H	H	H	H

Keterangan:

H = Homogen

Lampiran 6. Hasil Pengukuran pH Selama 28 Hari pada Suhu Kamar

Formula	Hari ke-	Replikasi			Rata-rata	SD	Rata-rata±SD
		1	2	3			
F0	0	6,18	6,17	6,19	6,18	0,01	6,18±0,01
	7	6,19	6,21	6,23	6,21	0,02	6,21±0,02
	14	6,22	6,21	6,23	6,22	0,01	6,22±0,01
	21	6,24	6,2	6,23	6,22	0,02	6,22±0,02
	28	6,24	6,25	6,23	6,24	0,01	6,24±0,01
F1	0	6,39	6,37	6,37	6,38	0,01	6,38±0,01
	7	6,41	6,4	6,41	6,41	0,01	6,41±0,01
	14	6,43	6,45	6,45	6,44	0,01	6,44±0,01
	21	6,7	6,74	6,76	6,73	0,03	6,73±0,03
	28	6,72	6,74	6,73	6,73	0,01	6,73±0,01
F2	0	6,25	6,28	6,27	6,27	0,02	6,27±0,02
	7	6,35	6,31	6,34	6,33	0,02	6,33±0,02
	14	6,36	6,35	6,36	6,36	0,01	6,36±0,01
	21	6,39	6,36	6,38	6,38	0,02	6,38±0,02
	28	6,39	6,41	6,42	6,41	0,02	6,41±0,02
F3	0	6,27	6,24	6,26	6,26	0,02	6,26±0,02
	7	6,29	6,31	6,3	6,30	0,01	6,30±0,01
	14	6,34	6,35	6,34	6,34	0,01	6,34±0,01
	21	6,38	6,39	6,39	6,39	0,01	6,39±0,01
	28	6,42	6,44	6,43	6,43	0,01	6,43±0,01
F4	0	6,28	6,3	6,29	6,29	0,01	6,29±0,01
	7	6,32	6,34	6,35	6,34	0,02	6,34±0,02
	14	6,38	6,37	6,38	6,38	0,01	6,38±0,01
	21	6,41	6,42	6,42	6,42	0,01	6,42±0,01
	28	6,46	6,46	6,47	6,46	0,01	6,46±0,01
F5	0	6,22	6,19	6,21	6,21	0,02	6,21±0,02
	7	6,26	6,27	6,25	6,26	0,01	6,26±0,01
	14	6,29	6,31	6,33	6,31	0,02	6,31±0,02
	21	6,32	6,34	6,34	6,33	0,01	6,33±0,01
	28	6,35	6,36	6,36	6,36	0,01	6,36±0,01

Lampiran 7. Hasil Pengukuran Viskositas Selama 28 Hari pada Suhu Kamar

Formula	Hari ke-	Replikasi			Rata-rata	SD	Rata-rata±SD
		1	2	3			
F0	0	4023	4012	4008	4014,33	7,77	4014,33±7,77
	7	3963	3991	3974	3976,00	14,11	3976±14,11
	14	3984	3964	3968	3972,00	10,58	3972±10,58
	21	3964	3972	3951	3962,33	10,60	3962,33±10,60
	28	3920	3899	3930	3916,33	15,82	3916,33±15,82
F1	0	5013	5024	5012	5016,33	6,66	5016,33±6,66
	7	4998	4974	4989	4987,00	12,12	4992±6,00
	14	4735	4782	4778	4765,00	26,06	4169,33±10,07
	21	4659	4648	4663	4656,67	7,77	4144±14,42
	28	4489	4498	4478	4488,33	10,02	4935±33,87
F2	0	4267	4259	4281	4269,00	11,14	4269±11,14
	7	4243	4188	4196	4209,00	29,72	4209±29,72
	14	4160	4168	4180	4169,33	10,07	4169,33±10,07
	21	4160	4132	4140	4144,00	14,42	4144±14,42
	28	3978	3993	4008	3993,00	15,00	3993±15,00
F3	0	4373	4348	4363	4361,33	12,58	4361,33±12,58
	7	4328	4272	4288	4296,00	28,84	4296±28,84
	14	4288	4260	4284	4277,33	15,14	4277,33±15,14
	21	4284	4281	4268	4277,67	8,50	4277,66±8,50
	28	4268	4269	4275	4270,67	3,79	4270,66±3,79
F4	0	4672	4669	4678	4673,00	4,58	4673±4,58
	7	4658	4646	4653	4652,33	6,03	4652,33±6,03
	14	4632	4627	4619	4626,00	6,56	4626±6,56
	21	4599	4586	4568	4584,33	15,57	4584,33±15,57
	28	4541	4579	4563	4561,00	19,08	4561±19,08
F5	0	4160	4182	4179	4173,67	11,93	4173,66±11,93
	7	4096	4140	4132	4122,67	23,44	4122,66±23,44
	14	4096	4072	4068	4078,67	15,14	4078,66±15,14
	21	4042	4017	4024	4027,67	12,90	4027,66±12,90
	28	3998	3983	3972	3984,33	13,05	3984,33±13,05

Lampiran 8. Hasil Pengujian Daya Sebar Selama 28 Hari pada Suhu Kamar

Formula	Hari ke-	Replikasi			Rata-rata	SD	Rata-rata $\pm$ SD
		1	2	3			
F0	0	5,57	5,54	5,56	5,56	0,02	5,56 $\pm$ 0,02
	7	5,61	5,59	5,58	5,59	0,02	5,59 $\pm$ 0,02
	14	5,65	5,64	5,64	5,64	0,01	5,64 $\pm$ 0,01
	21	5,67	5,66	5,68	5,67	0,01	5,67 $\pm$ 0,01
	28	5,64	5,67	5,66	5,66	0,02	5,66 $\pm$ 0,02
F1	0	5,35	5,34	5,35	5,35	0,01	5,35 $\pm$ 0,01
	7	5,35	5,33	5,35	5,34	0,01	5,34 $\pm$ 0,01
	14	5,42	5,41	5,43	5,42	0,01	5,42 $\pm$ 0,01
	21	5,45	5,46	5,45	5,45	0,01	5,45 $\pm$ 0,01
	28	5,41	5,43	5,43	5,42	0,01	5,42 $\pm$ 0,01
F2	0	5,43	5,42	5,4	5,42	0,02	5,42 $\pm$ 0,02
	7	5,44	5,43	5,41	5,43	0,02	5,43 $\pm$ 0,02
	14	5,46	5,47	5,45	5,46	0,01	5,46 $\pm$ 0,01
	21	5,47	5,48	5,48	5,48	0,01	5,48 $\pm$ 0,01
	28	5,48	5,51	5,5	5,50	0,02	5,5 $\pm$ 0,02
F3	0	5,4	5,4	5,41	5,40	0,01	5,4 $\pm$ 0,01
	7	5,41	5,43	5,42	5,42	0,01	5,42 $\pm$ 0,01
	14	5,45	5,46	5,45	5,45	0,01	5,45 $\pm$ 0,01
	21	5,46	5,47	5,47	5,47	0,01	5,47 $\pm$ 0,01
	28	5,46	5,45	5,48	5,46	0,02	5,46 $\pm$ 0,02
F4	0	5,37	5,35	5,33	5,35	0,02	5,35 $\pm$ 0,02
	7	5,36	5,37	5,37	5,37	0,01	5,37 $\pm$ 0,01
	14	5,39	5,41	5,43	5,41	0,02	5,41 $\pm$ 0,02
	21	5,45	5,44	5,46	5,45	0,01	5,45 $\pm$ 0,01
	28	5,46	5,45	5,48	5,46	0,02	5,46 $\pm$ 0,02
F5	0	5,52	5,51	5,56	5,53	0,03	5,53 $\pm$ 0,03
	7	5,55	5,58	5,57	5,57	0,02	5,57 $\pm$ 0,02
	14	5,6	5,62	5,61	5,61	0,01	5,61 $\pm$ 0,01
	21	5,59	5,63	5,61	5,61	0,02	5,61 $\pm$ 0,02
	28	5,62	5,58	5,61	5,60	0,02	5,60 $\pm$ 0,02

Lampiran 9. Hasil Pengujian Stabilitas *Cycling test*

a. Parameter Organoleptik

Siklus ke-	Pengamatan	F0	F1	F2	F3	F4	F5
0	Bentuk	SS	SS	SS	SS	SS	SS
	Warna	CMK	CMK	CMK	CMK	CMK	CMK
	Aroma	TB	TB	TB	TB	TB	TB
	Tekstur	SK	K	K	K	K	K
1	Bentuk	SS	SS	SS	SS	SS	SS
	Warna	CMK	CMK	CMK	CMK	CMK	CMK
	Aroma	TB	TB	TB	TB	TB	TB
	Tekstur	SK	K	K	K	K	K
2	Bentuk	SS	SS	SS	SS	SS	SS
	Warna	CMK	CMK	CMK	CMK	CMK	CMK
	Aroma	TB	TB	TB	TB	TB	TB
	Tekstur	SK	K	K	K	K	K
3	Bentuk	SS	SS	SS	SS	SS	SS
	Warna	CMK	CMK	CMK	CMK	CMK	CMK
	Aroma	TB	TB	TB	TB	TB	TB
	Tekstur	C	K	K	K	K	SK
4	Bentuk	SS	SS	SS	SS	SS	SS
	Warna	CMK	CMK	CMK	CMK	CMK	CMK
	Aroma	TB	TB	TB	TB	TB	TB
	Tekstur	C	K	K	K	K	SK
5	Bentuk	SS	SS	SS	SS	SS	SS
	Warna	CMK	CMK	CMK	CMK	CMK	CMK
	Aroma	TB	TB	TB	TB	TB	TB
	Tekstur	C	K	K	K	K	SK
6	Bentuk	SS	SS	SS	SS	SS	SS
	Warna	CMK	CMK	CMK	CMK	CMK	CMK
	Aroma	TB	TB	TB	TB	TB	TB
	Tekstur	C	K	K	K	K	SK

Keterangan:

CMK = Coklat Muda Kekuningan

TB = Tidak Beraroma

SS = Semi Solid

C = Cair

SK = Sedikit Kental

K = Kental

b. Parameter Homogenitas

Siklus ke-	Homogenitas					
	F0	F1	F2	F3	F4	F5
0	H	H	H	H	H	H
1	H	H	H	H	H	H
2	H	H	H	H	H	H
3	H	H	H	H	H	H
4	H	H	H	H	H	H
5	H	H	H	H	H	H
6	H	H	H	H	H	H

Keterangan:

H = Homogen

c. Parameter pH

Formula	Siklus ke-	Replikasi			Rata-rata	SD	Rata-rata±SD
		1	2	3			
F0	0	6,19	6,18	6,19	6,19	0,01	6,19±0,01
	1	6,26	6,28	6,26	6,27	0,01	6,27±0,01
	2	6,33	6,29	6,31	6,31	0,02	6,31±0,02
	3	6,36	6,36	6,37	6,36	0,01	6,36±0,01
	4	6,39	6,4	6,41	6,40	0,01	6,40±0,01
	5	6,4	6,42	6,43	6,42	0,02	6,42±0,02
	6	6,45	6,48	6,47	6,47	0,02	6,47±0,02
F1	0	6,37	6,35	6,36	6,36	0,01	6,36±0,01
	1	6,39	6,38	6,42	6,40	0,02	6,40±0,02
	2	6,46	6,48	6,49	6,48	0,02	6,48±0,02
	3	6,54	6,54	6,53	6,54	0,01	6,54±0,01
	4	6,59	6,6	6,59	6,59	0,01	6,59±0,01
	5	6,66	6,65	6,64	6,65	0,01	6,65±0,01
	6	7,18	7,12	7,13	7,14	0,03	7,14±0,03
F2	0	6,28	6,27	6,26	6,27	0,01	6,27±0,01
	1	6,34	6,33	6,35	6,34	0,01	6,34±0,01
	2	6,38	6,37	6,38	6,38	0,01	6,38±0,01
	3	6,39	6,39	6,38	6,39	0,01	6,39±0,01
	4	6,41	6,42	6,42	6,42	0,01	6,42±0,01
	5	6,44	6,4	6,43	6,42	0,02	6,42±0,02
	6	6,45	6,48	6,47	6,47	0,02	6,47±0,02
F3	0	6,27	6,24	6,26	6,26	0,02	6,26±0,02
	1	6,34	6,33	6,32	6,33	0,01	6,33±0,01
	2	6,36	6,35	6,38	6,36	0,02	6,36±0,02
	3	6,4	6,39	6,41	6,40	0,01	6,40±0,01
	4	6,43	6,44	6,46	6,44	0,02	6,44±0,02

	5	6,5	6,48	6,52	6,50	0,02	6,50±0,02
	6	6,53	6,56	6,55	6,55	0,02	6,55±0,02
F4	0	6,29	6,33	6,36	6,33	0,04	6,33±0,04
	1	6,39	6,4	6,42	6,40	0,02	6,40±0,02
	2	6,46	6,5	6,48	6,48	0,02	6,48±0,02
	3	6,55	6,56	6,51	6,54	0,03	6,54±0,03
	4	6,8	6,78	6,81	6,80	0,02	6,80±0,02
	5	6,94	6,97	6,91	6,94	0,03	6,94±0,03
	6	7,09	7,05	7,08	7,07	0,02	7,07±0,02
F5	0	6,18	6,22	6,24	6,21	0,03	6,21±0,03
	1	6,26	6,3	6,28	6,28	0,02	6,28±0,02
	2	6,29	6,3	6,33	6,31	0,02	6,31±0,02
	3	6,36	6,34	6,37	6,36	0,02	6,36±0,02
	4	6,39	6,42	6,45	6,42	0,03	6,42±0,03
	5	6,44	6,48	6,49	6,47	0,03	6,47±0,03
	6	6,52	6,49	6,5	6,50	0,02	6,50±0,02

d. Parameter Viskositas

Formula	Siklus ke-	Replikasi			Rata-rata	SD	Rata-rata±SD
		1	2	3			
F0	0	4132	4141	4147	4140,00	7,55	4140,00±7,55
	1	4067	4053	4081	4067,00	14,00	4067,00±14,00
	2	3944	3938	3927	3936,33	8,62	3936,33±8,62
	3	3883	3891	3899	3891,00	8,00	3891,00±8,00
	4	3364	3393	3386	3381,00	15,13	3381,00±15,13
	5	3172	3199	3187	3186,00	13,53	3186,00±13,53
	6	2880	2886	2892	2886,00	6,00	2886,00±6,00
F1	0	5144	5158	5148	5150,00	7,21	5150,00±7,21
	1	5367	5349	5359	5358,33	9,02	5358,33±9,02
	2	5414	5405	5423	5414,00	9,00	5414,00±9,00
	3	5589	5576	5573	5579,33	8,50	5579,33±8,50
	4	5732	5756	5731	5739,67	14,15	5739,67±14,15
	5	5956	5970	5963	5963,00	7,00	5963,00±7,00
	6	6116	6098	6102	6105,33	9,45	6105,33±9,45
F2	0	4318	4322	4335	4325,00	8,89	4325,00±8,89
	1	4177	4183	4191	4183,67	7,02	4183,67±7,02
	2	4102	4087	4092	4093,67	7,64	4093,67±7,64
	3	4005	4036	4027	4022,67	15,95	4022,67±15,95
	4	3951	3968	3965	3961,33	9,07	3961,33±9,07
	5	3706	3692	3692	3696,67	8,08	3696,67±8,08

	6	3480	3467	3489	3478,67	11,06	3478,67±11,06
F3	0	4492	4512	4504	4502,67	10,07	4502,67±10,07
	1	4450	4468	4485	4467,67	17,50	4467,67±17,50
	2	4397	4392	4404	4397,67	6,03	4397,67±6,03
	3	4190	4207	4198	4198,33	8,50	4198,33±8,50
	4	4091	4087	4073	4083,67	9,45	4083,67±9,45
	5	4011	4023	4009	4014,33	7,57	4014,33±7,57
	6	3987	3965	3983	3978,33	11,72	3978,33±11,72
F4	0	4671	4694	4667	4677,33	14,57	4677,33±14,57
	1	4723	4748	4751	4740,67	15,37	4740,67±15,37
	2	4860	4873	4879	4870,67	9,71	4870,67±9,71
	3	4893	4904	4891	4896,00	7,00	4896,00±7,00
	4	4941	4975	4953	4956,33	17,24	4956,33±17,24
	5	5048	5021	5037	5035,33	13,58	5035,33±13,58
	6	5097	5134	5118	5116,33	18,56	5116,33±18,56
F5	0	4223	4247	4238	4236,00	12,12	4236,00±12,12
	1	4209	4184	4193	4195,33	12,66	4195,33±12,66
	2	4067	4056	4039	4054,00	14,11	4054,00±14,11
	3	3789	3778	3774	3780,33	7,77	3780,33±7,77
	4	3693	3674	3689	3685,33	10,02	3685,33±10,02
	5	3567	3556	3562	3561,67	5,51	3561,67±5,51
	6	3229	3253	3238	3240,00	12,12	3240,00±12,12

e. Parameter Daya Sebar

Formula	Siklus ke-	Replikasi			Rata-rata	SD	Rata-rata±SD
		1	2	3			
F0	0	5,98	5,94	5,97	5,96	0,02	5,96±0,02
	1	6,14	6,18	6,15	6,16	0,02	6,16±0,02
	2	6,19	6,17	6,21	6,19	0,02	6,19±0,02
	3	6,24	6,28	6,27	6,26	0,02	6,26±0,02
	4	6,3	6,35	6,33	6,33	0,03	6,33±0,03
	5	6,39	6,42	6,43	6,41	0,02	6,41±0,02
	6	6,5	6,49	6,54	6,51	0,03	6,51±0,03
F1	0	5,88	5,9	5,85	5,88	0,03	5,88±0,03
	1	5,8	5,82	5,86	5,83	0,03	5,83±0,03
	2	5,73	5,77	5,74	5,75	0,02	5,75±0,02
	3	5,54	5,58	5,59	5,57	0,03	5,57±0,03
	4	5,45	5,43	5,47	5,45	0,02	5,45±0,02
	5	5,38	5,33	5,33	5,35	0,03	5,35±0,03
	6	5,29	5,25	5,23	5,26	0,03	5,26±0,03

F2	0	5,36	5,3	5,35	5,34	0,03	5,34±0,03
	1	5,45	5,4	5,42	5,42	0,03	5,42±0,03
	2	5,58	5,55	5,56	5,56	0,02	5,56±0,02
	3	5,54	5,58	5,59	5,57	0,03	5,57±0,03
	4	5,64	5,61	5,65	5,63	0,02	5,63±0,02
	5	5,68	5,67	5,7	5,68	0,02	5,68±0,02
	6	5,82	5,85	5,8	5,82	0,03	5,82±0,03
F3	0	5,45	5,48	5,42	5,45	0,03	5,45±0,03
	1	5,5	5,51	5,53	5,51	0,02	5,51±0,02
	2	5,59	5,5	5,58	5,56	0,05	5,56±0,05
	3	5,65	5,65	5,63	5,64	0,01	5,64±0,01
	4	5,7	5,68	5,66	5,68	0,02	5,68±0,02
	5	5,75	5,73	5,74	5,74	0,01	5,74±0,01
	6	5,78	5,8	5,82	5,80	0,02	5,80±0,02
F4	0	5,58	5,57	5,55	5,57	0,02	5,57±0,02
	1	5,55	5,5	5,54	5,53	0,03	5,53±0,03
	2	5,46	5,44	5,4	5,43	0,03	5,43±0,03
	3	5,4	5,38	5,37	5,38	0,02	5,38±0,02
	4	5,35	5,37	5,35	5,36	0,01	5,36±0,01
	5	5,28	5,25	5,3	5,28	0,03	5,28±0,03
	6	5,2	5,21	5,19	5,20	0,01	5,20±0,01
F5	0	5,56	5,5	5,52	5,53	0,03	5,53±0,03
	1	5,58	5,57	5,56	5,57	0,01	5,57±0,01
	2	5,59	5,6	5,62	5,60	0,02	5,60±0,02
	3	5,62	5,65	5,63	5,63	0,02	5,63±0,02
	4	5,75	5,77	5,73	5,75	0,02	5,75±0,02
	5	5,79	5,81	5,85	5,82	0,03	5,82±0,03
	6	5,9	5,95	5,96	5,94	0,03	5,94±0,03

Lampiran 10. Tabel Data Serapan UV

a. Tabel Serapan UV

Sampel	λ (nm)	Absorbansi			EE x I	EE x I x Abs			CF	SPF ($\sum(\text{EE} \times \text{IxAbs}) \times \text{CF}$)
		1	2	3		1	2	3		
SP	290	4,029	4,139	4,274	0,015	0,060435	0,062085	0,06411	10	20,7234
	295	3,583	3,34	3,746	0,0817	0,292731	0,272878	0,306048		20,7071
	300	2,576	2,836	2,645	0,2874	0,740342	0,815066	0,760173		19,3595
	305	1,937	1,864	1,472	0,3278	0,634949	0,611019	0,482522		
	310	1,463	1,248	1,236	0,1864	0,272703	0,232627	0,23039		
	315	0,735	0,795	0,976	0,0837	0,06152	0,066542	0,081691		
	320	0,537	0,583	0,612	0,018	0,009666	0,010494	0,011016		
SPF ($\sum(\text{EE} \times \text{IxAbs}) \times \text{CF}$)						2,072346	2,070711	1,93595	Rata-rata	20,26335833
F0	290	1,08	1,123	1,075	0,015	0,0162	0,016845	0,016125	10	3,874251
	295	0,897	0,964	0,918	0,0817	0,073285	0,078759	0,075001		4,453772
	300	0,612	0,672	0,684	0,2874	0,175889	0,193133	0,196582		4,280642
	305	0,295	0,303	0,319	0,3278	0,096701	0,099323	0,104568		
	310	0,136	0,259	0,192	0,1864	0,02535	0,048278	0,035789		
	315	0	0,108	0	0,0837	0	0,00904	0		
	320	0	0	0	0,018	0	0	0		
$\sum(\text{EE} \times \text{IxAbs})$						0,387425	0,445377	0,428064	Rata-rata	4,202888333
F1	290	3,167	3,326	3,273	0,015	0,047505	0,04989	0,049095	10	17,223395
	295	2,484	3,081	2,937	0,0817	0,202943	0,251718	0,239953		20,009265
	300	1,819	2,384	2,163	0,2874	0,522781	0,685162	0,621646		19,01998
	305	1,718	1,946	1,849	0,3278	0,56316	0,637899	0,606102		
	310	1,63	1,538	1,619	0,1864	0,303832	0,286683	0,301782		
	315	0,871	0,936	0,893	0,0837	0,072903	0,078343	0,074744		
	320	0,512	0,624	0,482	0,018	0,009216	0,011232	0,008676		
$\sum(\text{EE} \times \text{IxAbs})$						1,72234	2,000927	1,901998	Rata-rata	18,75088
F2	290	3,17	3,041	3,174	0,015	0,04755	0,045615	0,04761	10	13,090762
	295	2,579	2,847	2,649	0,0817	0,210704	0,2326	0,216423		13,450244
	300	1,949	1,852	1,947	0,2874	0,560143	0,532265	0,559568		14,497154
	305	0,885	0,973	1,235	0,3278	0,290103	0,318949	0,404833		
	310	0,716	0,849	0,883	0,1864	0,133462	0,158254	0,164591		
	315	0,687	0,581	0,593	0,0837	0,057502	0,04863	0,049634		
	320	0,534	0,484	0,392	0,018	0,009612	0,008712	0,007056		
$\sum(\text{EE} \times \text{IxAbs})$						1,309076	1,345024	1,449715	Rata-rata	13,67938667
F3	290	4,129	3,997	4,119	0,015	0,061935	0,059955	0,061785	10	14,494828
	295	3,264	2,949	3,093	0,0817	0,266669	0,240933	0,252698		13,928381
	300	2,008	1,973	1,861	0,2874	0,577099	0,56704	0,534851		13,579713
	305	0,986	0,976	0,959	0,3278	0,323211	0,319933	0,31436		
	310	0,852	0,801	0,791	0,1864	0,158813	0,149306	0,147442		
	315	0,646	0,572	0,486	0,0837	0,05407	0,047876	0,040678		
	320	0,427	0,433	0,342	0,018	0,007686	0,007794	0,006156		

$\Sigma(\text{EExIxAbs})$						1,449483	1,392838	1,357971	Rata-rata	14,000974
F4	290	3,004	3,119	3,155	0,015	0,04506	0,046785	0,047325	10	12,899051
	295	2,624	2,456	2,42	0,0817	0,214381	0,200655	0,197714		12,62671
	300	1,803	1,715	1,963	0,2874	0,518182	0,492891	0,564166		13,54851
	305	0,965	0,95	0,998	0,3278	0,316327	0,31141	0,327144		
	310	0,746	0,796	0,831	0,1864	0,139054	0,148374	0,154898		
	315	0,591	0,642	0,65	0,0837	0,049467	0,053735	0,054405		
	320	0,413	0,49	0,511	0,018	0,007434	0,00882	0,009198		
$\Sigma(\text{EExIxAbs})$						1,289905	1,262671	1,354851	Rata-rata	13,024757
F5	290	3,821	3,983	3,895	0,015	0,057315	0,059745	0,058425	10	17,943879
	295	3,014	3,245	3,355	0,0817	0,246244	0,265117	0,274104		18,499431
	300	2,123	2,153	2,1634	0,2874	0,61015	0,618772	0,621761		17,9845016
	305	1,849	1,969	1,805	0,3278	0,606102	0,645438	0,591679		
	310	1,028	1,025	0,972	0,1864	0,191619	0,19106	0,181181		
	315	0,895	0,736	0,751	0,0837	0,074912	0,061603	0,062859		
	320	0,447	0,456	0,469	0,018	0,008046	0,008208	0,008442		
$\Sigma(\text{EExIxAbs})$						1,794388	1,849943	1,79845	Rata-rata	18,14260387

Lampiran 11. Contoh Uraian Perhitungan Nilai SPF
Contoh: Formula 1

λ (nm)	EE x I	Absorbansi		
		Replikasi 1	Replikasi 2	Replikasi 3
290	0,015	3,167	3,326	3,273
295	0,0817	2,484	3,081	2,937
300	0,2874	1,819	2,384	2,163
305	0,3278	1,718	1,946	1,849
310	0,1864	1,63	1,538	1,619
315	0,0837	0,871	0,936	0,893
320	0,018	0,512	0,624	0,482

$$SPF_{spectrophotometric} = CF \sum_{290}^{320} xEE(\lambda)xI(\lambda)xAbs(\lambda)$$

Replikasi 1

$$\begin{aligned} SPF &= 10 \times \{(0,015 \times 3,167) + (0,0817 \times 2,484) + (0,2874 \times 1,819) + (0,3278 \times \\ &1,718) + (0,1864 \times 1,63) + (0,0837 \times 0,871) + (0,018 \times 0,512)\} \\ &= 10 \times 1,72234 = 17,2234 \end{aligned}$$

Replikasi 2

$$\begin{aligned} SPF &= 10 \times \{(0,015 \times 3,326) + (0,0817 \times 3,081) + (0,2874 \times 2,384) + (0,3278 \times \\ &1,946) + (0,1864 \times 1,538) + (0,0837 \times 0,936) + (0,018 \times 0,624)\} \\ &= 10 \times 2,00093 = 20,0093 \end{aligned}$$

Replikasi 3

$$\begin{aligned} SPF &= 10 \times \{(0,015 \times 3,273) + (0,0817 \times 2,937) + (0,2874 \times 2,163) + (0,3278 \times \\ &1,849) + (0,1864 \times 1,619) + (0,0837 \times 0,893) + (0,018 \times 0,482)\} \\ &= 10 \times 1,902 = 19,02 \end{aligned}$$

$$\begin{aligned} SPF_{F1} &= \frac{Replikasi\ 1 + Replikasi\ 2 + Replikasi\ 3}{3} = \frac{17,2234 + 20,0093 + 19,02}{3} \\ &= 18,75088 \end{aligned}$$

Lampiran 12. Hasil Uji Iritasi

Waktu	Efek Iritasi	Kelompok uji			
		Knor	KN	F1	F5
Jam ke-24	Eritema	0	0	0	0
	Udema	0	0	0	0
Jam ke-48	Eritema	0	0	0	0
	Udema	0	0	0	0
Jam ke-72	Eritema	0	0	0	0
	Udema	0	0	0	0
Indeks Iritasi				0,0	0,0

Keterangan:

Knor = Kontrol normal yaitu tanpa diberi perlakuan apapun

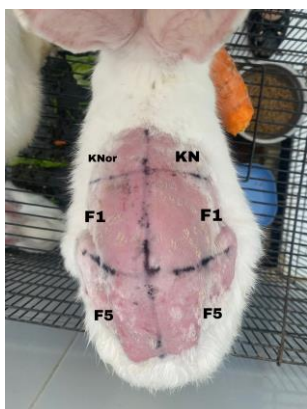
KN = Kontrol negatif yaitu basis krim alas bedak tanpa penambahan zat aktif

F1 = Formula 1 dengan konsentrasi cangkang telur bebek 15%

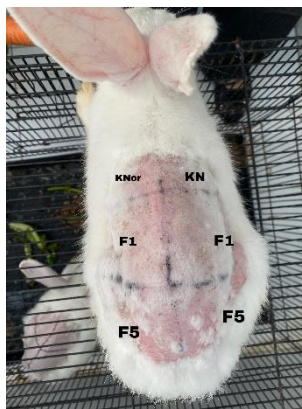
F5 = Formula 5 dengan konsentrasi minyak biji kelor 15%

Eritema = kemerahan pada kulit

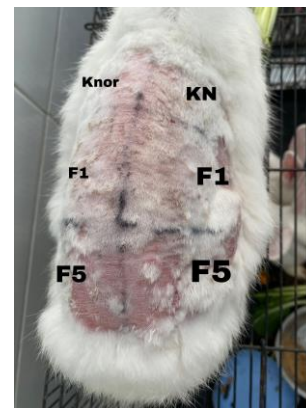
Udema = Bengkak pada kulit



Jam ke-24



Jam ke-48



Jam ke-72

Lampiran 13. Hasil Analisis Statistik Pengukuran pH selama 28 Hari pada Suhu Kamar

Uji Normalitas

Tests of Normality							
	Hari_ke	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistik	df	Sig.	Statistik	df	Sig.
pH_F0	Hari ke 0	.175	3	.	1.000	3	1.000
	Hari ke 7	.175	3	.	1.000	3	1.000
	Hari ke 14	.175	3	.	1.000	3	1.000
	Hari ke 21	.292	3	.	.923	3	.463
	Hari ke 28	.175	3	.	1.000	3	1.000
pH_F1	Hari ke 0	.175	3	.	1.000	3	1.000
	Hari ke 7	.385	3	.	.750	3	.000
	Hari ke 14	.385	3	.	.750	3	.000
	Hari ke 21	.253	3	.	.964	3	.637
	Hari ke 28	.211	3	.	.991	3	.817
pH_F2	Hari ke 0	.253	3	.	.964	3	.637
	Hari ke 7	.292	3	.	.923	3	.463
	Hari ke 14	.385	3	.	.750	3	.000
	Hari ke 21	.253	3	.	.964	3	.637
	Hari ke 28	.253	3	.	.964	3	.637
pH_F3	Hari ke 0	.253	3	.	.964	3	.637
	Hari ke 7	.175	3	.	1.000	3	1.000
	Hari ke 14	.385	3	.	.750	3	.000
	Hari ke 21	.385	3	.	.750	3	.000
	Hari ke 28	.175	3	.	1.000	3	1.000
pH_F4	Hari ke 0	.175	3	.	1.000	3	1.000
	Hari ke 7	.253	3	.	.964	3	.637
	Hari ke 14	.385	3	.	.750	3	.000
	Hari ke 21	.385	3	.	.750	3	.000
	Hari ke 28	.385	3	.	.750	3	.000
pH_F5	Hari ke 0	.253	3	.	.964	3	.637
	Hari ke 7	.175	3	.	1.000	3	1.000
	Hari ke 14	.175	3	.	1.000	3	1.000
	Hari ke 21	.385	3	.	.750	3	.000
	Hari ke 28	.385	3	.	.750	3	.000

a. Lilliefors Significance Correction

Uji Homogenitas

Test of Homogeneity of Variances				
	Levene Statistik	df1	df2	Sig.
pH_F0	.927	4	10	.486
pH_F1	2.585	4	10	.102
pH_F2	1.085	4	10	.415
pH_F3	.909	4	10	.495
pH_F4	1.360	4	10	.315
pH_F5	.794	4	10	.556

Uji Kruskal-Wallis

Test Statistiks^{a,b}

	pH_F0	pH_F1	pH_F2	pH_F3	pH_F4	pH_F5
Chi-Square	9.717	12.879	13.057	13.548	13.573	13.281
df	4	4	4	4	4	4
Asymp. Sig.	.045	.012	.011	.009	.009	.010

a. Kruskal Wallis Test

b. Grouping Variable: Hari_ke

Uji Post-Hoc

Formula 0

Pairwise Comparison of Formula

Sample 1 -Sample 2	Test Statistik	Std. Error	Std. Test Statistik	Sig.	Adj. Sig ^a
Hari ke 0-Hari ke 7	-4.667	3.609	-1.293	.196	1.000
Hari ke 0-Hari ke 14	-6.167	3.609	-1.709	.087	.875
Hari ke 0-Hari ke 21	-7.500	3.609	-2.078	.038	.377
Hari ke 0-Hari ke 28	-10.833	3.609	-3.002	.003	.027
Hari ke 7-Hari ke 14	-1.500	3.609	-.416	.678	1.000
Hari ke 7-Hari ke 21	-2.833	3.609	-.785	.432	1.000
Hari ke 7-Hari ke 28	-6.167	3.609	-1.709	.087	.875
Hari ke 14-Hari ke 21	-1.333	3.609	-.369	.712	1.000
Hari ke 14-Hari ke 28	-4.667	3.609	-1.293	.196	1.000
Hari ke 21-Hari ke 28	-3.333	3.609	-.924	.356	1.000

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

Asymptotic significances (2-sided test) are displayed. The significance level is 0,5

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

Formula 1

Pairwise Comparison of Formula

Sample 1 -Sample 2	Test Statistik	Std. Error	Std. Test Statistik	Sig.	Adj. Sig ^a
Hari ke 0-Hari ke 7	-3.000	3.645	-.823	.410	1.000
Hari ke 0-Hari ke 14	-6.000	3.645	-1.646	.100	.997
Hari ke 0-Hari ke 21	-10.333	3.645	-2.835	.005	.046
Hari ke 0-Hari ke 28	-10.667	3.645	-2.926	.003	.034
Hari ke 7-Hari ke 14	-3.000	3.645	-.823	.410	1.000
Hari ke 7-Hari ke 21	-7.333	3.645	-2.012	.044	.442
Hari ke 7-Hari ke 28	-7.667	3.645	-2.103	.035	.354
Hari ke 14-Hari ke 21	-4.333	3.645	-1.189	.234	1.000
Hari ke 14-Hari ke 28	-4.667	3.645	-1.280	.200	1.000
Hari ke 21-Hari ke 28	-.333	3.645	-.091	.927	1.000

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

Asymptotic significances (2-sided test) are displayed. The significance level is 0,5

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

Formula 2

Pairwise Comparison of Formula

Sample 1 -Sample 2	Test Statistik	Std. Error	Std. Test Statistik	Sig.	Adj. Sig ^a
Hari ke 0-Hari ke 7	-3.167	3.632	-.872	.383	1.000
Hari ke 0-Hari ke 14	-6.167	3.632	-1.698	.090	.895
Hari ke 0-Hari ke 21	-8.833	3.632	-2.432	.015	.150
Hari ke 0-Hari ke 28	-11.833	3.632	-3.258	.001	.011
Hari ke 7-Hari ke 14	-3.000	3.632	-.826	.409	1.000
Hari ke 7-Hari ke 21	-5.667	3.632	-1.560	.119	1.000
Hari ke 7-Hari ke 28	-8.667	3.632	-2.386	.017	.170
Hari ke 14-Hari ke 21	-2.667	3.632	-.734	.463	1.000
Hari ke 14-Hari ke 28	-5.667	3.632	-1.560	.119	1.000
Hari ke 21-Hari ke 28	-3.000	3.632	-.826	.409	1.000

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

Asymptotic significances (2-sided test) are displayed. The significance level is 0,5

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

Formula 3

Pairwise Comparison of Formula

Sample 1 -Sample 2	Test Statistik	Std. Error	Std. Test Statistik	Sig.	Adj. Sig ^a
Hari ke 0-Hari ke 7	-3.000	3.645	-.823	.410	1.000
Hari ke 0-Hari ke 14	-6.000	3.645	-1.646	.100	.997
Hari ke 0-Hari ke 21	-9.000	3.645	-2.469	.014	.135
Hari ke 0-Hari ke 28	-12.000	3.645	-3.292	.001	.010
Hari ke 7-Hari ke 14	-3.000	3.645	-.823	.410	1.000
Hari ke 7-Hari ke 21	-6.000	3.645	-1.646	.100	.997
Hari ke 7-Hari ke 28	-9.000	3.645	-2.469	.014	.135
Hari ke 14-Hari ke 21	-3.000	3.645	-.823	.410	1.000
Hari ke 14-Hari ke 28	-6.000	3.645	-1.646	.100	.997
Hari ke 21-Hari ke 28	-3.000	3.645	-.823	.410	1.000

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

Asymptotic significances (2-sided test) are displayed. The significance level is 0,5

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

Formula 4

Pairwise Comparison of Formula

Sample 1 -Sample 2	Test Statistik	Std. Error	Std. Test Statistik	Sig.	Adj. Sig ^a
Hari ke 0-Hari ke 7	-3.000	3.642	-.824	.410	1.000
Hari ke 0-Hari ke 14	-6.000	3.642	-1.648	.099	.994
Hari ke 0-Hari ke 21	-9.000	3.642	-2.471	.013	.135
Hari ke 0-Hari ke 28	-12.000	3.642	-3.295	.001	.010
Hari ke 7-Hari ke 14	-3.000	3.642	-.824	.410	1.000
Hari ke 7-Hari ke 21	-6.000	3.642	-1.648	.099	.994
Hari ke 7-Hari ke 28	-9.000	3.642	-2.471	.013	.135
Hari ke 14-Hari ke 21	-3.000	3.642	-.824	.410	1.000
Hari ke 14-Hari ke 28	-6.000	3.642	-1.648	.099	.994
Hari ke 21-Hari ke 28	-3.000	3.642	-.824	.410	1.000

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

Asymptotic significances (2-sided test) are displayed. The significance level is 0,5

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

Formula 5

Pairwise Comparison of Formula

Sample 1 -Sample 2	Test Statistik	Std. Error	Std. Test Statistik	Sig.	Adj. Sig ^a
Hari ke 0-Hari ke 7	-3.000	3.645	-.823	.410	1.000
Hari ke 0-Hari ke 14	-6.333	3.645	-1.738	.082	.823
Hari ke 0-Hari ke 21	-8.667	3.645	-2.378	.017	.174
Hari ke 0-Hari ke 28	-12.000	3.645	-3.292	.001	.010
Hari ke 7-Hari ke 14	-3.333	3.645	-.915	.360	1.000
Hari ke 7-Hari ke 21	-5.667	3.645	-1.555	.120	1.000
Hari ke 7-Hari ke 28	-9.000	3.645	-2.469	.014	.135
Hari ke 14-Hari ke 21	-2.333	3.645	-.640	.522	1.000
Hari ke 14-Hari ke 28	-5.667	3.645	-1.555	.120	1.000
Hari ke 21-Hari ke 28	-3.333	3.645	-.915	.360	1.000

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

Asymptotic significances (2-sided test) are displayed. The significance level is 0,5

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

Lampiran 14. Hasil Analisis Statistik Uji Viskositas selama 28 Hari pada Suhu Kamar

Uji Normalitas

Tests of Normality								
	Hari_ke	Kolmogorov-Smirnov ^a			Shapiro-Wilk			Sig.
		Statistik	df	Sig.	Statistik	df	Sig.	
Viskositas_F0	Hari ke 0	.285	3	.	.932	3	.497	
	Hari ke 7	.223	3	.	.985	3	.765	
	Hari ke 14	.238	3	.	.976	3	.702	
	Hari ke 21	.229	3	.	.981	3	.739	
	Hari ke 28	.258	3	.	.960	3	.614	
Viskositas_F1	Hari ke 0	.358	3	.	.812	3	.144	
	Hari ke 7	.232	3	.	.980	3	.726	
	Hari ke 14	.358	3	.	.813	3	.147	
	Hari ke 21	.285	3	.	.932	3	.497	
	Hari ke 28	.382	3	.	.757	3	.015	
Viskositas_F2	Hari ke 0	.238	3	.	.976	3	.702	
	Hari ke 7	.336	3	.	.856	3	.258	
	Hari ke 14	.219	3	.	.987	3	.780	
	Hari ke 21	.276	3	.	.942	3	.537	
	Hari ke 28	.175	3	.	1.000	3	1.000	
Viskositas_F3	Hari ke 0	.219	3	.	.987	3	.780	
	Hari ke 7	.276	3	.	.942	3	.537	
	Hari ke 14	.337	3	.	.855	3	.253	
	Hari ke 21	.319	3	.	.885	3	.339	
	Hari ke 28	.337	3	.	.855	3	.253	
Viskositas_F4	Hari ke 0	.253	3	.	.964	3	.637	
	Hari ke 7	.211	3	.	.991	3	.817	
	Hari ke 14	.227	3	.	.983	3	.747	
	Hari ke 21	.209	3	.	.991	3	.823	
	Hari ke 28	.354	3	.	.821	3	.165	
Viskositas_F5	Hari ke 0	.339	3	.	.850	3	.241	
	Hari ke 7	.321	3	.	.881	3	.328	
	Hari ke 14	.337	3	.	.855	3	.253	
	Hari ke 21	.279	3	.	.939	3	.525	
	Hari ke 28	.207	3	.	.992	3	.831	

a. Lilliefors Significance Correction

Uji Homogenitas

Test of Homogeneity of Variances				
	Levene Statistik	df1	df2	Sig.
Viskositas_F0	.533	4	10	.715
Viskositas_F1	15.661	4	10	.000
Viskositas_F2	2.143	4	10	.150
Viskositas_F3	3.180	4	10	.063
Viskositas_F4	13.798	4	10	.000
Viskositas_F5	1.037	4	10	.435

Uji Kruskal-Wallis

Test Statistiks ^{a,b}						
	F0	F1	F2	F3	F4	F5
Chi-Square	11.374	13.500	13.382	8.722	13.233	13.382
df	4	4	4	4	4	4
Asymp. Sig.	.023	.009	.010	.068	.010	.010

a. Kruskal Wallis Test

b. Grouping Variable: Hari_ke

Uji Post-Hoc

Formula 1

Pairwise Comparison of Formula

Sample 1 -Sample 2	Test Statistik	Std. Error	Std. Test Statistik	Sig.	Adj. Sig ^a
Hari ke 28-Hari ke 21	3.000	3.651	.822	.411	1.000
Hari ke 28-Hari ke 14	6.000	3.651	1.643	.100	1.000
Hari ke 28-Hari ke 7	9.000	3.651	2.465	.014	.137
Hari ke 28-Hari ke 0	12.000	3.651	3.286	.001	.010
Hari ke 21-Hari ke 14	3.000	3.651	.822	.014	1.000
Hari ke 21-Hari ke 7	6.000	3.651	1.643	.100	1.000
Hari ke 21-Hari ke 0	9.000	3.651	2.465	.014	.137
Hari ke 14-Hari ke 7	3.000	3.651	.822	.411	1.000
Hari ke 14-Hari ke 0	6.000	3.651	1.643	.100	1.000
Hari ke 7-Hari ke 0	3.000	3.651	.822	.411	1.000

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

Asymptotic significances (2-sided test) are displayed. The significance level is 0,5

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

Formula 2

Pairwise Comparison of Formula

Sample 1 -Sample 2	Test Statistik	Std. Error	Std. Test Statistik	Sig.	Adj. Sig ^a
Hari ke 28-Hari ke 21	3.167	3.648	.868	.385	1.000
Hari ke 28-Hari ke 14	5.833	3.648	1.599	.110	1.000
Hari ke 28-Hari ke 7	9.000	3.648	2.467	.014	.136
Hari ke 28-Hari ke 0	12.000	3.648	3.289	.001	.010
Hari ke 21-Hari ke 14	2.667	3.648	.731	.465	1.000
Hari ke 21-Hari ke 7	5.833	3.648	1.599	.110	1.000
Hari ke 21-Hari ke 0	8.833	3.648	2.421	.015	.155
Hari ke 14-Hari ke 7	3.167	3.648	.868	.385	1.000
Hari ke 14-Hari ke 0	6.167	3.648	1.690	.091	.910
Hari ke 7-Hari ke 0	3.000	3.648	.822	.411	1.000

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

Asymptotic significances (2-sided test) are displayed. The significance level is 0,5

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

Formula 4

Pairwise Comparison of Formula

Sample 1 -Sample 2	Test Statistik	Std. Error	Std. Test Statistik	Sig.	Adj. Sig ^a
Hari ke 28-Hari ke 21	2.333	3.651	.639	.523	1.000
Hari ke 28-Hari ke 14	5.667	3.651	1.552	.121	1.000
Hari ke 28-Hari ke 7	8.667	3.651	2.373	.018	.176
Hari ke 28-Hari ke 0	11.667	3.651	3.195	.001	.014
Hari ke 21-Hari ke 14	3.333	3.651	.913	.361	1.000
Hari ke 21-Hari ke 7	6.333	3.651	1.734	.083	.828
Hari ke 21-Hari ke 0	9.333	3.651	2.556	.011	.106
Hari ke 14-Hari ke 7	3.000	3.651	.822	.411	1.000
Hari ke 14-Hari ke 0	6.000	3.651	1.643	.100	1.000
Hari ke 7-Hari ke 0	3.000	3.651	.822	.411	1.000

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

Asymptotic significances (2-sided test) are displayed. The significance level is 0,5

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

Formula 5

Pairwise Comparison of Formula

Sample 1 -Sample 2	Test Statistik	Std. Error	Std. Test Statistik	Sig.	Adj. Sig ^a
Hari ke 28-Hari ke 21	3.000	3.648	.822	.411	1.000
Hari ke 28-Hari ke 14	6.167	3.648	1.690	.091	.910
Hari ke 28-Hari ke 7	8.833	3.648	2.421	.015	.155
Hari ke 28-Hari ke 0	12.000	3.648	3.289	.001	.010
Hari ke 21-Hari ke 14	3.167	3.648	.868	.385	1.000
Hari ke 21-Hari ke 7	5.833	3.648	1.599	.110	1.000
Hari ke 21-Hari ke 0	9.000	3.648	2.467	.014	.136
Hari ke 14-Hari ke 7	2.667	3.648	.731	.465	1.000
Hari ke 14-Hari ke 0	5.833	3.648	1.599	.110	1.000
Hari ke 7-Hari ke 0	3.167	3.648	.868	.385	1.000

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

Asymptotic significances (2-sided test) are displayed. The significance level is 0,5

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

Lampiran 15. Hasil Analisis Statistik Uji Daya Sebar pH selama 28 Hari pada Suhu Kamar

Uji Normalitas

Tests of Normality

	Hari_ke	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistik	df	Sig.	Statistik	df	Sig.
Daya_Sebar_F0	Hari ke 0	.253	3	.	.964	3	.637
	Hari ke 7	.253	3	.	.964	3	.637
	Hari ke 14	.385	3	.	.750	3	.000
	Hari ke 21	.175	3	.	1.000	3	1.000
	Hari ke 28	.253	3	.	.964	3	.637
Daya_Sebar_F1	Hari ke 0	.385	3	.	.750	3	.000
	Hari ke 7	.385	3	.	.750	3	.000
	Hari ke 14	.175	3	.	1.000	3	1.000
	Hari ke 21	.385	3	.	.750	3	.000
	Hari ke 28	.385	3	.	.750	3	.000
Daya_Sebar_F2	Hari ke 0	.253	3	.	.964	3	.637
	Hari ke 7	.253	3	.	.964	3	.637
	Hari ke 14	.175	3	.	1.000	3	1.000
	Hari ke 21	.385	3	.	.750	3	.000
	Hari ke 28	.253	3	.	.964	3	.637
Daya_Sebar_F3	Hari ke 0	.385	3	.	.750	3	.000
	Hari ke 7	.175	3	.	1.000	3	1.000
	Hari ke 14	.385	3	.	.750	3	.000
	Hari ke 21	.385	3	.	.750	3	.000
	Hari ke 28	.253	3	.	.964	3	.637
Daya_Sebar_F4	Hari ke 0	.175	3	.	1.000	3	1.000
	Hari ke 7	.385	3	.	.750	3	.000
	Hari ke 14	.175	3	.	1.000	3	1.000
	Hari ke 21	.175	3	.	1.000	3	1.000
	Hari ke 28	.253	3	.	.964	3	.637
Daya_Sebar_F5	Hari ke 0	.314	3	.	.893	3	.363
	Hari ke 7	.253	3	.	.964	3	.637
	Hari ke 14	.175	3	.	1.000	3	1.000
	Hari ke 21	.175	3	.	1.000	3	1.000
	Hari ke 28	.292	3	.	.923	3	.463

a. Lilliefors Significance Correction

Uji Homogenitas

Test of Homogeneity of Variances

	Levene Statistik	df1	df2	Sig.
Daya_Sebar_F0	.816	4	10	.543
Daya_Sebar_F1	1.053	4	10	.428
Daya_Sebar_F2	.816	4	10	.543
Daya_Sebar_F3	1.360	4	10	.315
Daya_Sebar_F4	.695	4	10	.613
Daya_Sebar_F5	.962	4	10	.469

Uji Kruskal-Wallis

Test Statistiks^{a,b}

	F0	F1	F2	F3	F4	F5
Chi-Square	12.568	12.550	12.669	11.926	12.703	10.420
df	4	4	4	4	4	4
Asymp. Sig.	.014	.014	.013	.018	.013	.034

a. Kruskal Wallis Test

b. Grouping Variable: Hari_ke

Uji Post-Hoc

Formula 0

Pairwise Comparison of Formula

Sample 1 -Sample 2	Test Statistik	Std. Error	Std. Test Statistik	Sig.	Adj. Sig ^a
Hari ke 0-Hari ke 7	-3.000	3.632	-.826	.409	1.000
Hari ke 0-Hari ke 14	-6.667	3.632	-1.8366	.066	.664
Hari ke 0-Hari ke 28	-9.000	3.632	-2.478	.013	.132
Hari ke 0-Hari ke 21	-11.333	3.632	-3.121	.002	.018
Hari ke 7-Hari ke 14	-3.667	3.632	-1.010	.313	1.000
Hari ke 7-Hari ke 28	-6.000	3.632	-1.652	.099	.985
Hari ke 7-Hari ke 21	-8.333	3.632	-2.295	.022	.218
Hari ke 14-Hari ke 28	-2.333	3.632	-.642	.521	1.000
Hari ke 14-Hari ke 21	-4.667	3.632	-1.285	.199	1.000
Hari ke 21-Hari ke 28	-2.333	3.632	-.642	.521	1.000

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

Asymptotic significances (2-sided test) are displayed. The significance level is 0,5

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

Formula 1

Pairwise Comparison of Formula

Sample 1 -Sample 2	Test Statistik	Std. Error	Std. Test Statistik	Sig.	Adj. Sig ^a
Hari ke 0-Hari ke 7	-.333	3.599	-.093	.926	1.000
Hari ke 0-Hari ke 14	-5.500	3.599	-1.528	.126	.1000
Hari ke 0-Hari ke 21	-10.333	3.599	-2.871	.004	.041
Hari ke 0-Hari ke 28	-6.167	3.599	-1.713	.087	.866
Hari ke 7-Hari ke 14	-5.833	3.599	-1.621	.105	1.000
Hari ke 7-Hari ke 21	-10.667	3.599	-2.964	.030	1.000
Hari ke 7-Hari ke 28	-6.500	3.599	-1.806	.079	.030
Hari ke 14-Hari ke 21	-4.833	3.599	1.343	.179	1.000
Hari ke 14-Hari ke 28	-.667	3.599	-.185	.853	1.000
Hari ke 21-Hari ke 28	-4.167	3.599	-1.158	.247	1.000

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

Asymptotic significances (2-sided test) are displayed. The significance level is 0,5

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

Formula 2

Pairwise Comparison of Formula

Sample 1 -Sample 2	Test Statistik	Std. Error	Std. Test Statistik	Sig.	Adj. Sig ^a
Hari ke 0-Hari ke 7	-1.333	3.632	-.367	.714	1.000
Hari ke 0-Hari ke 14	-5.333	3.632	-1.468	.142	1.000
Hari ke 0-Hari ke 21	-8.333	3.632	-2.295	.022	.218
Hari ke 0-Hari ke 28	-10.833	3.632	-2.983	.003	.029
Hari ke 7-Hari ke 14	-4.000	3.632	-1.101	.271	1.000

Hari ke 7-Hari ke 21	-7.000	3.632	-1.927	.054	0.539
Hari ke 7-Hari ke 28	-9.500	3.632	-2.616	.009	.089
Hari ke 14-Hari ke 21	-3.000	3.632	-.826	.409	1.000
Hari ke 14-Hari ke 28	-5.500	3.632	-1.514	.130	1.000
Hari ke 21-Hari ke 28	-2.500	3.632	-.688	.491	1.000

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

Asymptotic significances (2-sided test) are displayed. The significance level is 0,5

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

Formula 3

Pairwise Comparison of Formula

Sample 1 -Sample 2	Test Statistik	Std. Error	Std. Test Statistik	Sig.	Adj. Sig ^a
Hari ke 0-Hari ke 7	-2.667	3.615	-.738	.461	1.000
Hari ke 0-Hari ke 14	-6.833	3.615	-1.890	.059	.588
Hari ke 0-Hari ke 21	-9.167	3.615	-2.535	.011	.112
Hari ke 0-Hari ke 28	-10.500	3.615	-2.904	.004	.037
Hari ke 7-Hari ke 14	-4.167	3.615	-1.152	.249	1.000
Hari ke 7-Hari ke 21	-6.500	3.615	-1.798	.072	0.722
Hari ke 7-Hari ke 28	-7.833	3.615	-2.167	.030	.303
Hari ke 14-Hari ke 21	-2.333	3.615	-.645	.519	1.000
Hari ke 14-Hari ke 28	-3.667	3.615	-1.014	.311	1.000
Hari ke 21-Hari ke 28	-1.333	3.615	-.369	.712	1.000

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

Asymptotic significances (2-sided test) are displayed. The significance level is 0,5

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

Formula 4

Pairwise Comparison of Formula

Sample 1 -Sample 2	Test Statistik	Std. Error	Std. Test Statistik	Sig.	Adj. Sig ^a
Hari ke 0-Hari ke 7	-1.667	3.632	-.459	.646	1.000
Hari ke 0-Hari ke 14	-5.333	3.632	-1.468	.142	1.000
Hari ke 0-Hari ke 21	-9.000	3.632	-2.478	.013	.132
Hari ke 0-Hari ke 28	-10.667	3.632	-2.937	.003	.033
Hari ke 7-Hari ke 14	-3.667	3.632	-1.010	.313	1.000
Hari ke 7-Hari ke 21	-7.333	3.632	-2.019	.043	.435
Hari ke 7-Hari ke 28	-9.000	3.632	-2.478	.013	.132
Hari ke 14-Hari ke 21	-3.667	3.632	-1.010	.313	1.000
Hari ke 14-Hari ke 28	-5.333	3.632	-1.468	.142	1.000
Hari ke 21-Hari ke 28	-1.667	3.632	-.459	.646	1.000

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

Asymptotic significances (2-sided test) are displayed. The significance level is 0,5

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

Formula 5

Pairwise Comparison of Formula

Sample 1 -Sample 2	Test Statistik	Std. Error	Std. Test Statistik	Sig.	Adj. Sig ^a
Hari ke 0-Hari ke 7	-2.500	3.632	-.688	.491	1.000
Hari ke 0-Hari ke 14	-8.833	3.632	-2.432	.015	.150
Hari ke 0-Hari ke 21	-9.000	3.632	-2.478	.013	.132
Hari ke 0-Hari ke 28	-8.000	3.632	-2.203	.028	.276
Hari ke 7-Hari ke 14	-6.333	3.632	-1.010	.081	.812
Hari ke 7-Hari ke 21	-6.500	3.632	-1.744	.074	.735
Hari ke 7-Hari ke 28	-5.500	3.632	-1.514	.130	1.000
Hari ke 14-Hari ke 21	-.167	3.632	-.046	.963	1.000

Hari ke 28-Hari ke 14	.833	3.632	.229	.819	1.000
Hari ke 21-Hari ke 28	.167	3.632	.275	.783	1.000

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

Asymptotic significances (2-sided test) are displayed. The significance level is 0,5

- b. Significance values have been adjusted by the Bonferroni correction for multiple test.

Lampiran 16. Hasil Analisis Statistik Penentuan Nilai SPF Krim Alas Bedak

Uji Normalitas

Tests of Normality

	Formula	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistik	df	Sig.	Statistik	df	Sig.
Nilai SPF	Sediaan di Pasaran	.380	3	.	.761	3	.055
	F0	.272	3	.	.946	3	.552
	F1	.242	3	.	.973	3	.686
	F2	.290	3	.	.926	3	.474
	F3	.227	3	.	.983	3	.747
	F4	.272	3	.	.946	3	.553
	F5	.356	3	.	.816	3	.154

a. Lilliefors Significance Correction

Uji Homogenitas

Test of Homogeneity of Variances

Nilai SPF	Levene Statistik	df1	df2	Sig.
	2.315	6	14	.092

Uji One-Way Anova

ANOVA

Nilai SPF	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	520.790	6	86.798	162.067	.000
Within Groups	7.498	14	.536		
Total	528.288	20			

Uji Post-Hoc

Multiple Comparisons

Dependent Variable: Nilai SPF

Tukey HSD

(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Sediaan di Pasaran	F0	16.06000*	.59753	.000	14.0197	18.1003
	F1	1.51667	.59753	.218	-.5237	3.5570
	F2	6.58000*	.59753	.000	4.5397	8.6203
	F3	6.26000*	.59753	.000	4.2197	8.3003
	F4	7.23333*	.59753	.000	5.1930	9.2737
	F5	2.11667*	.59753	.040	.0763	4.1570
F0	Sediaan di Pasaran	-16.06000*	.59753	.000	-18.1003	-14.0197
	F1	-14.54333*	.59753	.000	-16.5837	-12.5030
	F2	-9.48000*	.59753	.000	-11.5203	-7.4397
	F3	-9.80000*	.59753	.000	-11.8403	-7.7597

F1	F4	-8.82667*	.59753	.000	-10.8670	-6.7863
	F5	-13.94333*	.59753	.000	-15.9837	-11.9030
	Sediaan di Pasaran	-1.51667	.59753	.218	-3.5570	.5237
F2	F0	14.54333*	.59753	.000	12.5030	16.5837
	F2	5.06333*	.59753	.000	3.0230	7.1037
	F3	4.74333*	.59753	.000	2.7030	6.7837
	F4	5.71667*	.59753	.000	3.6763	7.7570
	F5	.60000	.59753	.945	-1.4403	2.6403
	Sediaan di Pasaran	-6.58000*	.59753	.000	-8.6203	-4.5397
F3	F0	9.48000*	.59753	.000	7.4397	11.5203
	F1	-5.06333*	.59753	.000	-7.1037	-3.0230
	F3	-.32000	.59753	.998	-2.3603	1.7203
	F4	.65333	.59753	.920	-1.3870	2.6937
	F5	-4.46333*	.59753	.000	-6.5037	-2.4230
	Sediaan di Pasaran	-6.26000*	.59753	.000	-8.3003	-4.2197
F4	F0	9.80000*	.59753	.000	7.7597	11.8403
	F1	-4.74333*	.59753	.000	-6.7837	-2.7030
	F2	.32000	.59753	.998	-1.7203	2.3603
	F4	.97333	.59753	.668	-1.0670	3.0137
	F5	-4.14333*	.59753	.000	-6.1837	-2.1030
	Sediaan di Pasaran	-7.23333*	.59753	.000	-9.2737	-5.1930
F5	F0	8.82667*	.59753	.000	6.7863	10.8670
	F1	-5.71667*	.59753	.000	-7.7570	-3.6763
	F2	-.65333	.59753	.920	-2.6937	1.3870
	F3	-.97333	.59753	.668	-3.0137	1.0670
	F5	-5.11667*	.59753	.000	-7.1570	-3.0763
	Sediaan di Pasaran	-2.11667*	.59753	.040	-4.1570	-.0763
	F0	13.94333*	.59753	.000	11.9030	15.9837
	F1	-.60000	.59753	.945	-2.6403	1.4403
	F2	4.46333*	.59753	.000	2.4230	6.5037
	F3	4.14333*	.59753	.000	2.1030	6.1837
	F4	5.11667*	.59753	.000	3.0763	7.1570

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

Nilai SPF
Tukey HSDa

Formula	N	Subset for alpha = 0.05			
		1	2	3	4
F0	3	4.2000			
F4	3		13.0267		
F2	3		13.6800		
F3	3		14.0000		
F5	3			18.1433	
F1	3			18.7433	18.7433

Sediaan di Pasaran	3				20.2600
Sig.		1.000	.668	.945	.218

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

Lampiran 17. Hasil Analisis Statistik Pengukuran pH selama *Cycling test*

Uji Normalitas

Tests of Normality

	Siklus	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistik	df	Sig.	Statistik	df	Sig.
pH_F0	Siklus 1	.385	3	.	.750	3	.000
	Siklus 2	.175	3	.	1.000	3	1.000
	Siklus 3	.385	3	.	.750	3	.000
	Siklus 4	.175	3	.	1.000	3	1.000
	Siklus 5	.253	3	.	.964	3	.637
	Siklus 6	.253	3	.	.964	3	.637
pH_F1	Siklus 1	.292	3	.	.923	3	.463
	Siklus 2	.253	3	.	.964	3	.637
	Siklus 3	.385	3	.	.750	3	.000
	Siklus 4	.385	3	.	.750	3	.000
	Siklus 5	.175	3	.	1.000	3	1.000
	Siklus 6	.328	3	.	.871	3	.298
pH_F2	Siklus 1	.175	3	.	1.000	3	1.000
	Siklus 2	.385	3	.	.750	3	.000
	Siklus 3	.385	3	.	.750	3	.000
	Siklus 4	.385	3	.	.750	3	.000
	Siklus 5	.292	3	.	.923	3	.463
	Siklus 6	.253	3	.	.964	3	.637
pH_F3	Siklus 1	.175	3	.	1.000	3	1.000
	Siklus 2	.253	3	.	.964	3	.637
	Siklus 3	.175	3	.	1.000	3	1.000
	Siklus 4	.253	3	.	.964	3	.637
	Siklus 5	.175	3	.	1.000	3	1.000
	Siklus 6	.253	3	.	.964	3	.637
pH_F4	Siklus 1	.253	3	.	.964	3	.637
	Siklus 2	.175	3	.	1.000	3	1.000
	Siklus 3	.314	3	.	.893	3	.363
	Siklus 4	.253	3	.	.964	3	.637
	Siklus 5	.175	3	.	1.000	3	1.000
	Siklus 6	.292	3	.	.923	3	.463
pH_F5	Siklus 1	.175	3	.	1.000	3	1.000
	Siklus 2	.292	3	.	.923	3	.463
	Siklus 3	.253	3	.	.964	3	.637
	Siklus 4	.175	3	.	1.000	3	1.000
	Siklus 5	.314	3	.	.893	3	.363
	Siklus 6	.253	3	.	.964	3	.637

a. Lilliefors Significance Correction

Uji Homogenitas

Test of Homogeneity of Variances

	Levene Statistik	df1	df2	Sig.
pH_F0	.684	5	12	.644
pH_F1	3.720	5	12	.029
pH_F2	2.345	5	12	.105
pH_F3	.387	5	12	.848
pH_F4	.428	5	12	.821
pH_F5	.428	5	12	.821

Uji Kruskal-Wallis

Test Statistiks^{a,b}

	pH_F0	pH_F1	pH_F2	pH_F3	pH_F4	pH_F5
Chi-Square	16.366	16.613	16.070	16.579	16.579	16.051
df	5	5	5	5	5	5
Asymp. Sig.	.006	.005	.007	.005	.005	.007

a. Kruskal Wallis Test

b. Grouping Variable: Siklus

Uji Post-Hoc

Formula 0

Pairwise Comparison of Formula

Sample 1 -Sample 2	Test Statistik	Std. Error	Std. Test Statistik	Sig.	Adj. Sig ^a
Siklus 1-Siklus 2	-3.000	4.352	-.689	.491	1.000
Siklus 1-Siklus 3	-6.000	4.352	-1.379	.168	1.000
Siklus 1-Siklus 4	-9.500	4.352	-2.183	.029	.436
Siklus 1-Siklus 5	-11.500	4.352	-2.642	.008	.123
Siklus 1-Siklus 6	-15.000	4.352	-3.447	.001	.009
Siklus 2-Siklus 3	-3.000	4.352	-.689	.491	1.000
Siklus 2-Siklus 4	-6.500	4.352	-1.494	.135	1.000
Siklus 2-Siklus 5	-8.500	4.352	-1.953	.051	.763
Siklus 2-Siklus 6	-12.000	4.352	-2.757	.006	.087
Siklus 3-Siklus 4	-3.500	4.352	-.804	.421	1.000
Siklus 3-Siklus 5	-5.500	4.352	-1.264	.206	1.000
Siklus 3-Siklus 6	-9.000	4.352	-2.068	.039	.580
Siklus 4-Siklus 5	-2.000	4.352	-.460	.646	1.000
Siklus 4-Siklus 6	-6.500	4.352	-1.264	.206	1.000
Siklus 5-Siklus 6	-3.500	4.352	-.804	.421	1.000

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

Asymptotic significances (2-sided test) are displayed. The significance level is 0,5

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

Formula 1

Pairwise Comparison of Formula

Sample 1 -Sample 2	Test Statistik	Std. Error	Std. Test Statistik	Sig.	Adj. Sig ^a
Siklus 1-Siklus 2	-3.000	4.354	-.689	.491	1.000
Siklus 1-Siklus 3	-6.000	4.354	-1.378	.168	1.000
Siklus 1-Siklus 4	-9.000	4.354	-2.067	.039	.581
Siklus 1-Siklus 5	-12.000	4.354	-2.756	.006	.088
Siklus 1-Siklus 6	-15.000	4.354	-3.445	.001	.009
Siklus 2-Siklus 3	-3.000	4.354	-.689	.491	1.000
Siklus 2-Siklus 4	-6.000	4.354	-1.378	.168	1.000
Siklus 2-Siklus 5	-9.000	4.354	-2.067	.039	.581
Siklus 2-Siklus 6	-12.000	4.354	-2.756	.006	.088
Siklus 3-Siklus 4	-3.000	4.354	-.689	.491	1.000
Siklus 3-Siklus 5	-6.000	4.354	-1.378	.168	1.000
Siklus 3-Siklus 6	-9.000	4.354	-2.067	.039	.581
Siklus 4-Siklus 5	-3.000	4.354	-.689	.491	1.000
Siklus 4-Siklus 6	-6.000	4.354	-1.378	.168	1.000
Siklus 5-Siklus 6	-3.000	4.354	-.689	.491	1.000

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

Asymptotic significances (2-sided test) are displayed. The significance level is 0,5

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

Formula 2

Pairwise Comparison of Formula

Sample 1 -Sample 2	Test Statistik	Std. Error	Std. Test Statistik	Sig.	Adj. Sig ^a
Siklus 1-Siklus 2	-3.333	4.345	-.767	.443	1.000
Siklus 1-Siklus 3	-5.667	4.345	-1.304	.192	1.000
Siklus 1-Siklus 4	-10.000	4.345	-2.301	.021	.321
Siklus 1-Siklus 5	-11.000	4.345	-2.531	.011	.170
Siklus 1-Siklus 6	-15.000	4.345	-3.452	.001	.008
Siklus 2-Siklus 3	-2.333	4.345	-.537	.591	1.000
Siklus 2-Siklus 4	-6.667	4.345	-1.534	.125	1.000
Siklus 2-Siklus 5	-7.667	4.345	-1.764	.078	1.000
Siklus 2-Siklus 6	-11.667	4.345	-2.685	.007	.109
Siklus 3-Siklus 4	-4.333	4.345	-.997	.391	1.000
Siklus 3-Siklus 5	-5.333	4.345	-1.227	.220	1.000
Siklus 3-Siklus 6	-9.333	4.345	-2.148	.032	.476
Siklus 4-Siklus 5	-1.000	4.345	-.230	.818	1.000
Siklus 4-Siklus 6	-5.000	4.345	-1.151	.250	1.000
Siklus 5-Siklus 6	-4.000	4.345	-.921	.357	1.000

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

Asymptotic significances (2-sided test) are displayed. The significance level is 0,5

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

Formula 3

Pairwise Comparison of Formula

Sample 1 -Sample 2	Test Statistik	Std. Error	Std. Test Statistik	Sig.	Adj. Sig ^a
Siklus 1-Siklus 2	-3.000	4.359	-.688	.491	1.000
Siklus 1-Siklus 3	-6.000	4.359	-1.376	.169	1.000
Siklus 1-Siklus 4	-9.000	4.359	-2.065	.039	.584
Siklus 1-Siklus 5	-12.000	4.359	-2.753	.006	.089
Siklus 1-Siklus 6	-15.000	4.359	-3.441	.001	.009
Siklus 2-Siklus 3	-3.000	4.359	-.688	.491	1.000
Siklus 2-Siklus 4	-6.000	4.359	-1.376	.169	1.000
Siklus 2-Siklus 5	-9.000	4.359	-2.065	.039	.584
Siklus 2-Siklus 6	-12.000	4.359	-2.753	.006	.089
Siklus 3-Siklus 4	-3.000	4.359	-.688	.491	1.000
Siklus 3-Siklus 5	-6.000	4.359	-1.376	.169	1.000
Siklus 3-Siklus 6	-9.000	4.359	-2.065	.039	.584
Siklus 4-Siklus 5	-3.000	4.359	-.688	.491	1.000
Siklus 4-Siklus 6	-6.000	4.359	-1.376	.169	1.000
Siklus 5-Siklus 6	-3.000	4.359	-.688	.491	1.000

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

Asymptotic significances (2-sided test) are displayed. The significance level is 0,5

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

Formula 4

Pairwise Comparison of Formula

Sample 1 -Sample 2	Test Statistik	Std. Error	Std. Test Statistik	Sig.	Adj. Sig ^a
Siklus 1-Siklus 2	-3.000	4.359	-.688	.491	1.000
Siklus 1-Siklus 3	-6.000	4.359	-1.376	.169	1.000
Siklus 1-Siklus 4	-9.000	4.359	-2.065	.039	.584
Siklus 1-Siklus 5	-12.000	4.359	-2.753	.006	.089
Siklus 1-Siklus 6	-15.000	4.359	-3.441	.001	.009
Siklus 2-Siklus 3	-3.000	4.359	-.688	.491	1.000
Siklus 2-Siklus 4	-6.000	4.359	-1.376	.169	1.000
Siklus 2-Siklus 5	-9.000	4.359	-2.065	.039	.584

Siklus 2-Siklus 6	-12.000	4.359	-2.753	.006	.089
Siklus 3-Siklus 4	-3.000	4.359	-.688	.491	1.000
Siklus 3-Siklus 5	-6.000	4.359	-1.376	.169	1.000
Siklus 3-Siklus 6	-9.000	4.359	-2.065	.039	.584
Siklus 4-Siklus 5	-3.000	4.359	-.688	.491	1.000
Siklus 4-Siklus 6	-6.000	4.359	-1.376	.169	1.000
Siklus 5-Siklus 6	-3.000	4.359	-.688	.491	1.000

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

Asymptotic significances (2-sided test) are displayed. The significance level is 0,5

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

Formula 5

Pairwise Comparison of Formula

Sample 1 -Sample 2	Test Statistik	Std. Error	Std. Test Statistik	Sig.	Adj. Sig ^a
Siklus 1-Siklus 2	-2.000	4.354	-.459	.646	1.000
Siklus 1-Siklus 3	-5.500	4.354	-1.263	.207	1.000
Siklus 1-Siklus 4	-8.833	4.354	-2.029	.042	.637
Siklus 1-Siklus 5	-11.333	4.354	-2.603	.009	.139
Siklus 1-Siklus 6	-14.333	4.354	-3.292	.001	.015
Siklus 2-Siklus 3	-3.500	4.354	-.804	.422	1.000
Siklus 2-Siklus 4	-6.833	4.354	-1.569	.117	1.000
Siklus 2-Siklus 5	-9.333	4.354	-2.143	.032	.481
Siklus 2-Siklus 6	-12.333	4.354	-2.832	.005	.069
Siklus 3-Siklus 4	-3.333	4.354	-.766	.444	1.000
Siklus 3-Siklus 5	-5.833	4.354	-1.340	.180	1.000
Siklus 3-Siklus 6	-8.333	4.354	-2.029	.042	.637
Siklus 4-Siklus 5	-2.500	4.354	-.574	.566	1.000
Siklus 4-Siklus 6	-5.500	4.354	-1.263	.207	1.000
Siklus 5-Siklus 6	-3.000	4.354	-.689	.491	1.000

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

Asymptotic significances (2-sided test) are displayed. The significance level is 0,5

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

Lampiran 18. Hasil Analisis Statistik Uji Viskositas selama *Cycling test*

Uji Normalitas

Tests of Normality							
	Siklus	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistik	df	Sig.	Statistik	df	Sig.
Viskositas_F0	Siklus 1	.175	3	.	1.000	3	1.000
	Siklus 2	.243	3	.	.972	3	.679
	Siklus 3	.175	3	.	1.000	3	1.000
	Siklus 4	.296	3	.	.918	3	.446
	Siklus 5	.211	3	.	.991	3	.817
	Siklus 6	.175	3	.	1.000	3	1.000
Viskositas_F1	Siklus 1	.196	3	.	.996	3	.878
	Siklus 2	.175	3	.	1.000	3	1.000
	Siklus 3	.319	3	.	.885	3	.339
	Siklus 4	.373	3	.	.780	3	.067
	Siklus 5	.276	3	.	.942	3	.537
	Siklus 6	.304	3	.	.907	3	.407
Viskositas_F2	Siklus 1	.204	3	.	.993	3	.843
	Siklus 2	.253	3	.	.964	3	.637
	Siklus 3	.274	3	.	.945	3	.546
	Siklus 4	.324	3	.	.878	3	.317
	Siklus 5	.385	3	.	.750	3	.060
	Siklus 6	.215	3	.	.989	3	.800
Viskositas_F3	Siklus 1	.177	3	.	1.000	3	.968
	Siklus 2	.211	3	.	.991	3	.817
	Siklus 3	.182	3	.	.999	3	.935
	Siklus 4	.304	3	.	.907	3	.407
	Siklus 5	.337	3	.	.855	3	.253
	Siklus 6	.321	3	.	.881	3	.328
Viskositas_F4	Siklus 1	.350	3	.	.829	3	.187
	Siklus 2	.262	3	.	.957	3	.600
	Siklus 3	.333	3	.	.862	3	.274
	Siklus 4	.243	3	.	.972	3	.679
	Siklus 5	.191	3	.	.997	3	.900
	Siklus 6	.202	3	.	.994	3	.851
Viskositas_F5	Siklus 1	.240	3	.	.975	3	.694
	Siklus 2	.223	3	.	.985	3	.765
	Siklus 3	.285	3	.	.932	3	.497
	Siklus 4	.310	3	.	.900	3	.384
	Siklus 5	.175	3	.	1.000	3	1.000
	Siklus 6	.232	3	.	.980	3	.726

a. Lilliefors Significance Correction

Uji Homogenitas

Test of Homogeneity of Variances				
	Levene Statistik	df1	df2	Sig.
Viskositas_F0	.983	5	12	.467
Viskositas_F1	1.265	5	12	.340
Viskositas_F2	1.872	5	12	.173
Viskositas_F3	.779	5	12	.584
Viskositas_F4	1.279	5	12	.335
Viskositas_F5	1.048	5	12	.434

Uji *One-Way Anova***ANOVA**

		Sum of Squares	df	Mean Square	F	Sig.
Viskositas_F0	Between Groups	3388444.667	5	677688.933	6396.644	.000
	Within Groups	1271.333	12	105.944		
	Total	3389716.000	17			
Viskositas_F1	Between Groups	1350090.278	5	270018.056	3015.090	.000
	Within Groups	1074.667	12	89.556		
	Total	1351164.944	17			
Viskositas_F2	Between Groups	1070915.167	5	214183.033	2255.877	.000
	Within Groups	1139.333	12	94.944		
	Total	1072054.500	17			
Viskositas_F3	Between Groups	621786.000	5	124357.200	1067.444	.000
	Within Groups	1398.000	12	116.500		
	Total	623184.000	17			
Viskositas_F4	Between Groups	264771.611	5	52954.322	302.117	.000
	Within Groups	2103.333	12	175.278		
	Total	266874.944	17			
Viskositas_F5	Between Groups	1777164.000	5	355432.800	3154.729	.000
	Within Groups	1352.000	12	112.667		
	Total	1778516.000	17			

Uji *Post-Hoc***Multiple Comparisons**

Tukey HSD

Dependent Variable	(I) Siklus	(J) Siklus	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
F0	Siklus 1	Siklus 2	130.667*	8.404	.000	102.44	158.90
		Siklus 3	176.000*	8.404	.000	147.77	204.23
		Siklus 4	686.000*	8.404	.000	657.77	714.23
		Siklus 5	874.333*	8.404	.000	846.10	902.56
		Siklus 6	1181.000*	8.404	.000	1152.77	1209.23
		Siklus 2	-130.667*	8.404	.000	-158.90	-102.44
	Siklus 2	Siklus 1	-130.667*	8.404	.000	-158.90	-102.44
		Siklus 3	45.333*	8.404	.002	17.10	73.56
		Siklus 4	555.333*	8.404	.000	527.10	583.56
		Siklus 5	743.667*	8.404	.000	715.44	771.90
		Siklus 6	1050.333*	8.404	.000	1022.10	1078.56
	Siklus 3	Siklus 1	-176.000*	8.404	.000	-204.23	-147.77

		Siklus 2	-45.333*	8.404	.002	-73.56	-17.10
		Siklus 4	510.000*	8.404	.000	481.77	538.23
		Siklus 5	698.333*	8.404	.000	670.10	726.56
		Siklus 6	1005.000*	8.404	.000	976.77	1033.23
	Siklus 4	Siklus 1	-686.000*	8.404	.000	-714.23	-657.77
		Siklus 2	-555.333*	8.404	.000	-583.56	-527.10
		Siklus 3	-510.000*	8.404	.000	-538.23	-481.77
		Siklus 5	188.333*	8.404	.000	160.10	216.56
		Siklus 6	495.000*	8.404	.000	466.77	523.23
	Siklus 5	Siklus 1	-874.333*	8.404	.000	-902.56	-846.10
		Siklus 2	-743.667*	8.404	.000	-771.90	-715.44
		Siklus 3	-698.333*	8.404	.000	-726.56	-670.10
		Siklus 4	-188.333*	8.404	.000	-216.56	-160.10
		Siklus 6	306.667*	8.404	.000	278.44	334.90
	Siklus 6	Siklus 1	-1181.000*	8.404	.000	-1209.23	-1152.77
		Siklus 2	-1050.333*	8.404	.000	-1078.56	-1022.10
		Siklus 3	-1005.000*	8.404	.000	-1033.23	-976.77
		Siklus 4	-495.000*	8.404	.000	-523.23	-466.77
		Siklus 5	-306.667*	8.404	.000	-334.90	-278.44
F1	Siklus 1	Siklus 2	-55.667*	7.727	.000	-81.62	-29.71
		Siklus 3	-221.000*	7.727	.000	-246.95	-195.05
		Siklus 4	-381.333*	7.727	.000	-407.29	-355.38
		Siklus 5	-608.667*	7.727	.000	-634.62	-582.71
		Siklus 6	-747.000*	7.727	.000	-772.95	-721.05
	Siklus 2	Siklus 1	55.667*	7.727	.000	29.71	81.62
		Siklus 3	-165.333*	7.727	.000	-191.29	-139.38
		Siklus 4	-325.667*	7.727	.000	-351.62	-299.71
		Siklus 5	-553.000*	7.727	.000	-578.95	-527.05
		Siklus 6	-691.333*	7.727	.000	-717.29	-665.38
	Siklus 3	Siklus 1	221.000*	7.727	.000	195.05	246.95

		Siklus 2	165.333*	7.727	.000	139.38	191.29
		Siklus 4	-160.333*	7.727	.000	-186.29	-134.38
		Siklus 5	-387.667*	7.727	.000	-413.62	-361.71
		Siklus 6	-526.000*	7.727	.000	-551.95	-500.05
		Siklus 4	Siklus 1	381.333*	7.727	.000	355.38
			Siklus 2	325.667*	7.727	.000	299.71
			Siklus 3	160.333*	7.727	.000	134.38
			Siklus 5	-227.333*	7.727	.000	-253.29
			Siklus 6	-365.667*	7.727	.000	-391.62
		Siklus 5	Siklus 1	608.667*	7.727	.000	582.71
			Siklus 2	553.000*	7.727	.000	527.05
			Siklus 3	387.667*	7.727	.000	361.71
			Siklus 4	227.333*	7.727	.000	201.38
			Siklus 6	-138.333*	7.727	.000	-164.29
		Siklus 6	Siklus 1	747.000*	7.727	.000	721.05
			Siklus 2	691.333*	7.727	.000	665.38
			Siklus 3	526.000*	7.727	.000	500.05
			Siklus 4	365.667*	7.727	.000	339.71
			Siklus 5	138.333*	7.727	.000	112.38
	F2	Siklus 1	Siklus 2	90.000*	7.956	.000	63.28
			Siklus 3	161.000*	7.956	.000	134.28
			Siklus 4	222.333*	7.956	.000	195.61
			Siklus 5	490.667*	7.956	.000	463.94
			Siklus 6	705.000*	7.956	.000	678.28
		Siklus 2	Siklus 1	-90.000*	7.956	.000	-116.72
			Siklus 3	71.000*	7.956	.000	44.28
			Siklus 4	132.333*	7.956	.000	105.61
			Siklus 5	400.667*	7.956	.000	373.94
			Siklus 6	615.000*	7.956	.000	588.28
		Siklus 3	Siklus 1	-161.000*	7.956	.000	-187.72
							-134.28

		Siklus 2	-71.000*	7.956	.000	-97.72	-44.28
		Siklus 4	61.333*	7.956	.000	34.61	88.06
		Siklus 5	329.667*	7.956	.000	302.94	356.39
		Siklus 6	544.000*	7.956	.000	517.28	570.72
	Siklus 4	Siklus 1	-222.333*	7.956	.000	-249.06	-195.61
		Siklus 2	-132.333*	7.956	.000	-159.06	-105.61
		Siklus 3	-61.333*	7.956	.000	-88.06	-34.61
		Siklus 5	268.333*	7.956	.000	241.61	295.06
		Siklus 6	482.667*	7.956	.000	455.94	509.39
	Siklus 5	Siklus 1	-490.667*	7.956	.000	-517.39	-463.94
		Siklus 2	-400.667*	7.956	.000	-427.39	-373.94
		Siklus 3	-329.667*	7.956	.000	-356.39	-302.94
		Siklus 4	-268.333*	7.956	.000	-295.06	-241.61
		Siklus 6	214.333*	7.956	.000	187.61	241.06
	Siklus 6	Siklus 1	-705.000*	7.956	.000	-731.72	-678.28
		Siklus 2	-615.000*	7.956	.000	-641.72	-588.28
		Siklus 3	-544.000*	7.956	.000	-570.72	-517.28
		Siklus 4	-482.667*	7.956	.000	-509.39	-455.94
		Siklus 5	-214.333*	7.956	.000	-241.06	-187.61
F3	Siklus 1	Siklus 2	70.000*	8.813	.000	40.40	99.60
		Siklus 3	269.333*	8.813	.000	239.73	298.94
		Siklus 4	384.000*	8.813	.000	354.40	413.60
		Siklus 5	453.333*	8.813	.000	423.73	482.94
		Siklus 6	489.333*	8.813	.000	459.73	518.94
	Siklus 2	Siklus 1	-70.000*	8.813	.000	-99.60	-40.40
		Siklus 3	199.333*	8.813	.000	169.73	228.94
		Siklus 4	314.000*	8.813	.000	284.40	343.60
		Siklus 5	383.333*	8.813	.000	353.73	412.94
		Siklus 6	419.333*	8.813	.000	389.73	448.94
	Siklus 3	Siklus 1	-269.333*	8.813	.000	-298.94	-239.73

		Siklus 2	-199.333*	8.813	.000	-228.94	-169.73
		Siklus 4	114.667*	8.813	.000	85.06	144.27
		Siklus 5	184.000*	8.813	.000	154.40	213.60
		Siklus 6	220.000*	8.813	.000	190.40	249.60
	Siklus 4	Siklus 1	-384.000*	8.813	.000	-413.60	-354.40
		Siklus 2	-314.000*	8.813	.000	-343.60	-284.40
		Siklus 3	-114.667*	8.813	.000	-144.27	-85.06
		Siklus 5	69.333*	8.813	.000	39.73	98.94
		Siklus 6	105.333*	8.813	.000	75.73	134.94
	Siklus 5	Siklus 1	-453.333*	8.813	.000	-482.94	-423.73
		Siklus 2	-383.333*	8.813	.000	-412.94	-353.73
		Siklus 3	-184.000*	8.813	.000	-213.60	-154.40
		Siklus 4	-69.333*	8.813	.000	-98.94	-39.73
		Siklus 6	36.000*	8.813	.015	6.40	65.60
	Siklus 6	Siklus 1	-489.333*	8.813	.000	-518.94	-459.73
		Siklus 2	-419.333*	8.813	.000	-448.94	-389.73
		Siklus 3	-220.000*	8.813	.000	-249.60	-190.40
		Siklus 4	-105.333*	8.813	.000	-134.94	-75.73
		Siklus 5	-36.000*	8.813	.015	-65.60	-6.40
F4	Siklus 1	Siklus 2	-130.000*	10.810	.000	-166.31	-93.69
		Siklus 3	-155.333*	10.810	.000	-191.64	-119.02
		Siklus 4	-215.667*	10.810	.000	-251.98	-179.36
		Siklus 5	-301.667*	10.810	.000	-337.98	-265.36
		Siklus 6	-375.667*	10.810	.000	-411.98	-339.36
	Siklus 2	Siklus 1	130.000*	10.810	.000	93.69	166.31
		Siklus 3	-25.333	10.810	.249	-61.64	10.98
		Siklus 4	-85.667*	10.810	.000	-121.98	-49.36
		Siklus 5	-171.667*	10.810	.000	-207.98	-135.36
		Siklus 6	-245.667*	10.810	.000	-281.98	-209.36
	Siklus 3	Siklus 1	155.333*	10.810	.000	119.02	191.64

		Siklus 2	25.333	10.810	.249	-10.98	61.64
		Siklus 4	-60.333*	10.810	.001	-96.64	-24.02
		Siklus 5	-146.333*	10.810	.000	-182.64	-110.02
		Siklus 6	-220.333*	10.810	.000	-256.64	-184.02
	Siklus 4	Siklus 1	215.667*	10.810	.000	179.36	251.98
		Siklus 2	85.667*	10.810	.000	49.36	121.98
		Siklus 3	60.333*	10.810	.001	24.02	96.64
		Siklus 5	-86.000*	10.810	.000	-122.31	-49.69
		Siklus 6	-160.000*	10.810	.000	-196.31	-123.69
	Siklus 5	Siklus 1	301.667*	10.810	.000	265.36	337.98
		Siklus 2	171.667*	10.810	.000	135.36	207.98
		Siklus 3	146.333*	10.810	.000	110.02	182.64
		Siklus 4	86.000*	10.810	.000	49.69	122.31
		Siklus 6	-74.000*	10.810	.000	-110.31	-37.69
	Siklus 6	Siklus 1	375.667*	10.810	.000	339.36	411.98
		Siklus 2	245.667*	10.810	.000	209.36	281.98
		Siklus 3	220.333*	10.810	.000	184.02	256.64
		Siklus 4	160.000*	10.810	.000	123.69	196.31
		Siklus 5	74.000*	10.810	.000	37.69	110.31
F5	Siklus 1	Siklus 2	141.333*	8.667	.000	112.22	170.44
		Siklus 3	415.000*	8.667	.000	385.89	444.11
		Siklus 4	510.000*	8.667	.000	480.89	539.11
		Siklus 5	636.333*	8.667	.000	607.22	665.44
		Siklus 6	955.333*	8.667	.000	926.22	984.44
	Siklus 2	Siklus 1	-141.333*	8.667	.000	-170.44	-112.22
		Siklus 3	273.667*	8.667	.000	244.56	302.78
		Siklus 4	368.667*	8.667	.000	339.56	397.78
		Siklus 5	495.000*	8.667	.000	465.89	524.11
		Siklus 6	814.000*	8.667	.000	784.89	843.11
	Siklus 3	Siklus 1	-415.000*	8.667	.000	-444.11	-385.89

		Siklus 2	-273.667*	8.667	.000	-302.78	-244.56
		Siklus 4	95.000*	8.667	.000	65.89	124.11
		Siklus 5	221.333*	8.667	.000	192.22	250.44
		Siklus 6	540.333*	8.667	.000	511.22	569.44
	Siklus 4	Siklus 1	-510.000*	8.667	.000	-539.11	-480.89
		Siklus 2	-368.667*	8.667	.000	-397.78	-339.56
		Siklus 3	-95.000*	8.667	.000	-124.11	-65.89
		Siklus 5	126.333*	8.667	.000	97.22	155.44
		Siklus 6	445.333*	8.667	.000	416.22	474.44
	Siklus 5	Siklus 1	-636.333*	8.667	.000	-665.44	-607.22
		Siklus 2	-495.000*	8.667	.000	-524.11	-465.89
		Siklus 3	-221.333*	8.667	.000	-250.44	-192.22
		Siklus 4	-126.333*	8.667	.000	-155.44	-97.22
		Siklus 6	319.000*	8.667	.000	289.89	348.11
	Siklus 6	Siklus 1	-955.333*	8.667	.000	-984.44	-926.22
		Siklus 2	-814.000*	8.667	.000	-843.11	-784.89
		Siklus 3	-540.333*	8.667	.000	-569.44	-511.22
		Siklus 4	-445.333*	8.667	.000	-474.44	-416.22
		Siklus 5	-319.000*	8.667	.000	-348.11	-289.89

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

Lampiran 19. Hasil Analisis Statistik Uji Daya Sebar selama *Cycling test*

Uji Normalitas

Tests of Normality

	Siklus	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistik	df	Sig.	Statistik	df	Sig.
F0	Siklus 1	.292	3	.	.923	3	.463
	Siklus 2	.175	3	.	1.000	3	1.000
	Siklus 3	.292	3	.	.923	3	.463
	Siklus 4	.219	3	.	.987	3	.780
	Siklus 5	.292	3	.	.923	3	.463
	Siklus 6	.314	3	.	.893	3	.363
F1	Siklus 1	.253	3	.	.964	3	.637
	Siklus 2	.292	3	.	.923	3	.463
	Siklus 3	.314	3	.	.893	3	.363
	Siklus 4	.175	3	.	1.000	3	1.000
	Siklus 5	.385	3	.	.750	3	.000
	Siklus 6	.253	3	.	.964	3	.637
F2	Siklus 1	.219	3	.	.987	3	.780
	Siklus 2	.253	3	.	.964	3	.637
	Siklus 3	.314	3	.	.893	3	.363
	Siklus 4	.292	3	.	.923	3	.463
	Siklus 5	.253	3	.	.964	3	.637
	Siklus 6	.219	3	.	.987	3	.780
F3	Siklus 1	.253	3	.	.964	3	.637
	Siklus 2	.292	3	.	.923	3	.463
	Siklus 3	.385	3	.	.750	3	.000
	Siklus 4	.175	3	.	1.000	3	1.000
	Siklus 5	.175	3	.	1.000	3	1.000
	Siklus 6	.175	3	.	1.000	3	1.000
F4	Siklus 1	.314	3	.	.893	3	.363
	Siklus 2	.253	3	.	.964	3	.637
	Siklus 3	.253	3	.	.964	3	.637
	Siklus 4	.385	3	.	.750	3	.000
	Siklus 5	.219	3	.	.987	3	.780
	Siklus 6	.175	3	.	1.000	3	1.000
F5	Siklus 1	.175	3	.	1.000	3	1.000
	Siklus 2	.253	3	.	.964	3	.637
	Siklus 3	.253	3	.	.964	3	.637
	Siklus 4	.175	3	.	1.000	3	1.000
	Siklus 5	.253	3	.	.964	3	.637
	Siklus 6	.328	3	.	.871	3	.298

a. Lilliefors Significance Correction

Uji Homogenitas

Test of Homogeneity of Variances

	Levene Statistik	df1	df2	Sig.
F0	.157	5	12	.974
F1	.349	5	12	.873
F2	.425	5	12	.822
F3	.444	5	12	.809
F4	1.346	5	12	.310
F5	1.480	5	12	.267

Uji Kruskal-Wallis

Test Statistiks^{a,b}

	F0	F1	F2	F3	F4	F5
Chi-Square	16.392	16.596	16.145	16.596	16.365	16.497
df	5	5	5	5	5	5
Asymp. Sig.	.006	.005	.006	.005	.006	.006

a. Kruskal Wallis Test

b. Grouping Variable: Siklus

Uji Post-Hoc

Formula 0

Pairwise Comparison of Formula

Sample 1 -Sample 2	Test Statistik	Std. Error	Std. Test Statistik	Sig.	Adj. Sig ^a
Siklus 1-Siklus 2	-2.333	4.359	-.535	.592	1.000
Siklus 1-Siklus 3	-5.667	4.359	-1.300	.194	1.000
Siklus 1-Siklus 4	-8.667	4.359	-1.988	.047	.702
Siklus 1-Siklus 5	-11.667	4.359	-2.677	.007	.112
Siklus 1-Siklus 6	-14.667	4.359	-3.365	.001	.011
Siklus 2-Siklus 3	-3.333	4.359	-.765	.444	1.000
Siklus 2-Siklus 4	-6.333	4.359	-1.453	.146	1.000
Siklus 2-Siklus 5	-9.333	4.359	-2.141	.032	.484
Siklus 2-Siklus 6	-12.333	4.359	-2.829	.005	.070
Siklus 3-Siklus 4	-3.000	4.359	-.688	.491	1.000
Siklus 3-Siklus 5	-6.000	4.359	-1.376	.169	1.000
Siklus 3-Siklus 6	-9.000	4.359	-2.065	.039	.584
Siklus 4-Siklus 5	-3.000	4.359	-.688	.491	1.000
Siklus 4-Siklus 6	-6.000	4.359	-1.376	.169	1.000
Siklus 5-Siklus 6	-3.000	4.359	-.688	.491	1.000

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

Asymptotic significances (2-sided test) are displayed. The significance level is 0,5

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

Formula 1

Pairwise Comparison of Formula

Sample 1 -Sample 2	Test Statistik	Std. Error	Std. Test Statistik	Sig.	Adj. Sig ^a
Siklus 6-Siklus 5	3.000	4.357	.689	.491	1.000
Siklus 6-Siklus 4	6.000	4.357	1.377	.168	1.000
Siklus 6-Siklus 3	9.000	4.357	2.066	.039	.583
Siklus 6-Siklus 2	12.000	4.357	2.754	.006	.088
Siklus 6-Siklus 1	15.000	4.357	3.443	.001	.009
Siklus 5-Siklus 4	3.000	4.357	.689	.491	1.000
Siklus 5-Siklus 3	6.000	4.357	1.377	.168	1.000
Siklus 5-Siklus 2	9.000	4.357	2.066	.039	.583
Siklus 5-Siklus 1	12.000	4.357	2.754	.006	.088
Siklus 4-Siklus 3	3.000	4.357	.689	.491	1.000
Siklus 4-Siklus 2	6.000	4.357	1.377	.168	1.000
Siklus 4-Siklus 1	9.000	4.357	2.066	.039	.583
Siklus 3-Siklus 2	3.000	4.357	.689	.491	1.000
Siklus 3-Siklus 1	6.000	4.357	1.377	.168	1.000
Siklus 2-Siklus 1	3.000	4.357	.689	.491	1.000

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

Asymptotic significances (2sided test) are displayed. The significance level is 0,5

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

Formula 2

Pairwise Comparison of Formula

Sample 1	Sample 2	Test Statistik	Std. Error	Std. Test Statistik	Sig.	Adj. Sig ^a
Siklus 1-Siklus 2		-4.167	4.357	-.956	.339	1.000
Siklus 1-Siklus 3		-4.833	4.357	-1.109	.267	1.000
Siklus 1-Siklus 4		-9.000	4.357	-2.066	.039	.583
Siklus 1-Siklus 5		-12.000	4.357	-2.754	.006	.088
Siklus 1-Siklus 6		-15.000	4.357	-3.443	.001	.009
Siklus 2-Siklus 3		-.667	4.357	-.153	.878	1.000
Siklus 2-Siklus 4		-4.833	4.357	-1.109	.267	1.000
Siklus 2-Siklus 5		-7.833	4.357	-1.798	.072	1.000
Siklus 2-Siklus 6		-10.833	4.357	-2.487	.013	.193
Siklus 3-Siklus 4		-4.167	4.357	-.956	.339	1.000
Siklus 3-Siklus 5		-7.167	4.357	-1.645	.100	1.000
Siklus 3-Siklus 6		-10.167	4.357	-2.334	.020	.294
Siklus 4-Siklus 5		-3.000	4.357	-.689	.491	1.000
Siklus 4-Siklus 6		-6.000	4.357	-1.377	.168	1.000
Siklus 5-Siklus 6		-3.000	4.357	-.689	.491	1.000

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

Asymptotic significances (2sided test) are displayed. The significance level is 0,5

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

Formula 3

Pairwise Comparison of Formula

Sample 1	Sample 2	Test Statistik	Std. Error	Std. Test Statistik	Sig.	Adj. Sig ^a
Siklus 1-Siklus 2		-3.000	4.357	-.689	.491	1.000
Siklus 1-Siklus 3		-6.000	4.357	-1.377	.168	1.000
Siklus 1-Siklus 4		-9.000	4.357	-2.066	.039	.583
Siklus 1-Siklus 5		-12.000	4.357	-2.754	.006	.088
Siklus 1-Siklus 6		-15.000	4.357	-3.443	.001	.009
Siklus 2-Siklus 3		-3.000	4.357	-.689	.491	1.000
Siklus 2-Siklus 4		-6.000	4.357	-1.377	.168	1.000
Siklus 2-Siklus 5		-9.000	4.357	-2.066	.039	.583
Siklus 2-Siklus 6		-12.000	4.357	-2.754	.006	.088
Siklus 3-Siklus 4		-3.000	4.357	-.689	.491	1.000
Siklus 3-Siklus 5		-6.000	4.357	-1.377	.168	1.000
Siklus 3-Siklus 6		-9.000	4.357	-2.066	.039	.583
Siklus 4-Siklus 5		-3.000	4.357	-.689	.491	1.000
Siklus 4-Siklus 6		-6.000	4.357	-1.377	.168	1.000
Siklus 5-Siklus 6		-3.000	4.357	-.689	.491	1.000

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

Asymptotic significances (2sided test) are displayed. The significance level is 0,5

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

Formula 4

Pairwise Comparison of Formula

Sample 1	Sample 2	Test Statistik	Std. Error	Std. Test Statistik	Sig.	Adj. Sig ^a
Siklus 6-Siklus 5		2.000	4.354	.690	.490	1.000
Siklus 6-Siklus 4		5.500	4.354	1.457	.145	1.000
Siklus 6-Siklus 3		8.833	4.354	2.032	.042	.633
Siklus 6-Siklus 2		11.333	4.354	2.722	.006	.097
Siklus 6-Siklus 1		14.333	4.354	3.450	.001	.008
Siklus 5-Siklus 4		3.500	4.354	.767	.443	1.000
Siklus 5-Siklus 3		6.833	4.354	1.342	.180	1.000
Siklus 5-Siklus 2		9.333	4.354	2.032	.042	.633

Siklus 5-Siklus 1	12.333	4.354	2.760	.006	.087
Siklus 4-Siklus 3	3.333	4.354	.575	.565	1.000
Siklus 4-Siklus 2	5.833	4.354	1.265	.206	1.000
Siklus 4-Siklus 1	8.333	4.354	1.993	.046	.693
Siklus 3-Siklus 2	2.500	4.354	.690	.490	1.000
Siklus 3-Siklus 1	5.500	4.354	1.418	.156	1.000
Siklus 2-Siklus 1	3.000	4.354	.728	.466	1.000

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

Asymptotic significances (2sided test) are displayed. The significance level is 0,5

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

Formula 5

Pairwise Comparison of Formula

Sample 1	Sample 2	Test Statistik	Std. Error	Std. Test Statistik	Sig.	Adj. Sig ^a
Siklus 1-Siklus 2		-3.167	4.357	-.727	.467	1.000
Siklus 1-Siklus 3		-5.833	4.357	-1.339	.181	1.000
Siklus 1-Siklus 4		-9.000	4.357	-2.066	.039	.583
Siklus 1-Siklus 5		-12.000	4.357	-2.754	.006	.088
Siklus 1-Siklus 6		-15.000	4.357	-3.443	.001	.009
Siklus 2-Siklus 3		-2.667	4.357	-.612	.540	1.000
Siklus 2-Siklus 4		-5.833	4.357	-1.339	.181	1.000
Siklus 2-Siklus 5		-8.833	4.357	-2.028	.043	1.000
Siklus 2-Siklus 6		-11.833	4.357	-2.716	.007	.039
Siklus 3-Siklus 4		-3.167	4.357	-.727	.467	.099
Siklus 3-Siklus 5		-6.167	4.357	-1.415	.157	1.000
Siklus 3-Siklus 6		-9.167	4.357	-2.104	.035	.531
Siklus 4-Siklus 5		-3.000	4.357	-.689	.491	1.000
Siklus 4-Siklus 6		-6.000	4.357	-1.377	.168	1.000
Siklus 5-Siklus 6		-3.000	4.357	-.689	.491	1.000

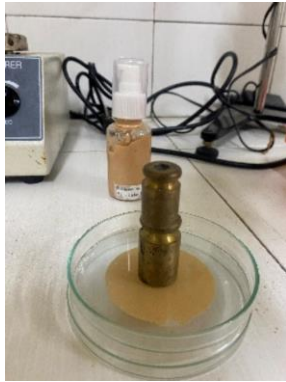
Each row test the null hypothesis that the Sample 1 and Sample 2 distributions are the same.

Asymptotic significances (2sided test) are displayed. The significance level is 0,5

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

Lampiran 20. Dokumentasi Evaluasi Sediaan





Lampiran 21. Sertifikat Analisis Minyak Biji Kelor (*Moringa Seed Oil*)

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

Moringa Seed Oil – Certificate of Analysis

BOTANICAL SOURCE	Moringa Oleifera
EXTRACTION METHOD	Cold Pressed
PART USED	Seed
Lot #	HAPPY - 3960

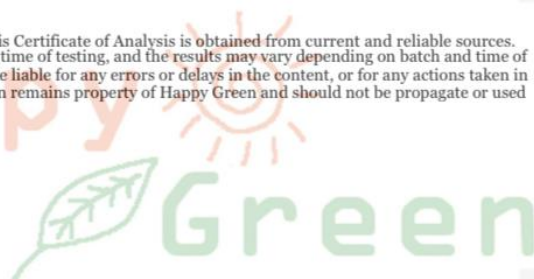
<u>TEST</u>	<u>STANDARD</u>	<u>RESULT</u>
ODOR	Typical Odor of Moringa Seed	Complies
COLOR	Pale Yellow	Complies
SPECIFIC GRAVITY (Wt / Ml)	0.910 – 0.975	0.959
REFRACTIVE INDEX	1.450 – 1.472	1.467
IODINE VALUE	50 – 60	56.85
ACID VALUE	15-25	19.70

CHEMICAL CONSTITUENTS:

Palmitoleic Acid	0.50 – 3.0	1.14
Palmitic Acid	2.0 – 10.0	5.6
Eicosanoic Acid	0.5 – 3.0	1.7
Oliec Acid	65.0 – 88.0	80.3
Linoleic Acid	1.0 – 5.0	2.5
Linolenic Acid	0.6 – 25.	1.5

Lignoceric Acid**2.0 – 6.0****4.8****Moringa Seed Oil Lab Report****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.



Lampiran 22. Sertifikat Analisis Asam Stearat



wilmar
FWINA-QC-19-011
REV 02 - 25/09/2019

Quality Control Department



KAN
Kantor Akreditasi Nasional
Laboratorium Pengujian
UIN-410-029

Date : 31/March/2023

CERTIFICATE OF ANALYSIS

Ref No : FA/QC/GSK/23/III-294
 Customer : UNICHEM BDG
 Product : STEARIC ACID 38%
 Manufactured Date : MARCH 12, 2023
 Best Before : MARCH 12, 2024
 Date of Sample Received : MARCH 12, 2023
 Date of Analysis : MARCH 12, 2023
 Lot No : B230312-27W

Parameter	Unit	Result	Specification	Test Method
Appearance *)	-	Beads	Beads	LT/WINA-FIN-QC-20-017
Acid Value	mg KOH/g	210	206 - 214	AOCS Te 1a - 64 : 2017
Saponification Value	mg KOH/g	211	207 - 215	AOCS Ti 1a - 64 : 2017
Iodine Value	% I2 absorbed	0.1	1 max	AOCS Tg 1a - 64 : 2017
Color 5% Lev	R	0.1	0.5 max	AOCS Cc 13a-92 : 2017
Color 5% Lev	Y	0.7	2 max	AOCS Cc 13a-92 : 2017
Titre	°C	55.4	54 - 57	AOCS Tr 1a - 64 : 2017
Carbon chain distribution	%			
- C12		ND	1 max	
- C14		0.3	2 max	AOCS Ce 1e - 91 : 1993
- C16		58.6	56 - 63	AOCS Ce 2 - 66 : 2017
- C18		40.4	37 - 42	
- Others		0.7	1 max	

Remark :
*) not accredited parameter

Certified Correct


Riko J. J. J.
 QC Head Control Lab

The result of these test relate only to the sample (s) submitted. The publication and duplicating of our test reports and expert opinions for advertising purpose as well as their use for any other purposes in extracts requires our written approval.

PAGE 1 OF 1

Lampiran 23. Sertifikat Analisis Propanediol



Certificate of Analysis

Material Our Reference
2900010328100 ZEMEA® PROPANEDIOL D0440L
PLASTIC

Produced by : 1701 PL: Primient Covation LLC 198 Blair Bend Drive 37774-6562 Loudon TN US
Batch : LP22G00211 / Quantity : 40.000 DRM Internal Ref field :
Production Date : 29-JUL-22 Best Before Date : 28-JUL-24
Inspection Lot : 40000579999

Parameter	Value	Lower Limit	Upper Limit	Method
1,3-PROPANEDIOL(%)	99.97	99.8	100	1,3 Propanediol
Hazen Color	2.6		10	Hazen Color
Water by Karl Fisher(ppm)	68.3		1000	Water
Appearance, Suspended Matter	Pass	Pass	-	Appearance, Suspended Matter

Seals for Shipment: 43106

Kathryn Allen
Quality Assurance Manager

Insp Lot # 040000579999
Batch : LP22G00211

MFG: 29-JUL-22
Page 1 of 1

Version: 1
Date 10.08.2022 8:25:32 AM

Lampiran 24. Sertifikat Analisis Trietanolamin



PETRONAS

CERTIFICATE OF ANALYSIS

Page 1 of 1

TRIETHANOLAMINE 99% 228 KG STEEL DRUM

Carrier/Vehicle ID	EISU 2215585	Material ID	72000064
Customer P.O. No.	5210018468	Customer No.	8010000437
Sales Order No.	100320191	Batch No.	38059H
Delivery Qty	80.000	Delivery No.	500582726
Delivery Unit	DR	Inspection Dt.	21 JUL 2022
		Expire Dt.	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)

Lampiran 25. Sertifikat Analisis DMDM Hydantoin

[illegible]

Lampiran 26. Sertifikat Analisis Etanol 96% Pro Analisis



PT. SMART-LAB INDONESIA
MANUFACTURER OF ANALYTICAL REAGENTS

**CERTIFICATE OF ANALYSIS**

Product Name	: Ethanol 96%	Molecular Weight	: 46.07 g/mol
Catalog No.	: A 1095	Batch No.	: 109502072001
Grade	: Analytical Reagent	Manufacturing Date	: July 02, 2020
Formula	: C_2H_5OH	Expire Date	: July, 2023
Cas No	: 64-17-5		

NO.	ITEM TEST	UNITS	SPECIFICATION	RESULT
1.	Appearance	—	Clear colorless liquid	Clear colorless liquid
2.	Assay (m/m)	wt %	92.6 – 95.2	93.383
3.	Assay (v/v)	v/v %	95.1 – 96.9	96.60
4.	Colour	Hazen	max 10	< 10
5.	Identity (IR)	—	Conforms	Conforms
6.	Acidity or Alkalinity	wt %	max 0.003	0.0013
7.	Density (d 20°C / 20 °C)	g/cm ³	0.805 – 0.812	0.8064
8.	Boiling point	°C	78 - 79	79
9.	The absorption curve is smooth	—	conforms	Conforms
10.	Volatile impurities (GC) :			
	Acetal and acetaldehyde	ppm	max 10	NIL
	Benzene	ppm	max 2	NIL
	Methanol	ppm	max 200	NIL
11	Total of Impurities	ppm	max 300	26.35
12.	Residu on evaporation	wt %	max 0.003	Trace

Result : The above product corresponds to AR Grade

Reference or standard of product specification to ACS Specification

PT. SMART LAB INDONESIA



SUDIRO S. Si
Head QC

Lampiran 27. Dokumentasi Kegiatan Pembuatan Serbuk Cangkang Telur



Pencucian cangkang telur



Pengeringan cangkang telur

Penghancuran cangkang telur
menggunakan blenderPengayakan serbuk cangkang telur
dengan mesh 325

Lampiran 28. Kartu Bimbingan Tugas Akhir



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



KARTU BIMBINGAN TUGAS AKHIR I/TUGAS AKHIR II

Pembimbing Utama	: apt. Yanni Dhiani Mardhani, M.BSc
Nama Mahasiswa	: Salsa Davincy Putri
NPM	: 201FF03076
Bidang Ilmu	: Farmasetika dan Teknologi Farmasi (FTF)

No	Hari/Tanggal	Waktu	Tempat	Materi	Paraf Dosen
1.	Kamis, 19 Oktober 2023	11.30-13.00	Zoom Meeting	Pembahasan tema, judul dan rekomendasi pembimbing serta	
2.	Kamis, 26 Oktober 2023	08.00-09.00	Whatsapp	Bimbingan dan konsultasi terkait tema tugas akhir	
3.	Jumat, 03 November 2023	14.00-15.00	Whatsapp	Pembahasan prosedur dan alur penelitian	
4.	Jumat, 10 November 2023	11.00-13.00	Zoom Meeting	Pembahasan progress tema dan judul serta rekomendasi pendaftaran kode etik	
5.	Kamis, 23 November 2023	10.00-13.30	Zoom Meeting	Presentasi kemajuan 1	
6.	Kamis, 14 Desember 2023	09.00-12.00	Zoom Meeting	Diskusi bab 2 dan 3	
7.	Kamis, 21 Desember 2023	16.30-16.45	Zoom Meeting	Diskusi formula dan prosedur pembuatan sediaan alas bedak (<i>foundation</i>)	
8.	Selasa, 09 Januari 2024	09.15-10.00	Whatsapp	Konsultasi perubahan bahan ekscipien dalam formula sediaan	
9.	Rabu, 10 Januari 2024	10.30-12.30	Kampus UBK	Revisi dan pembahasan draft proposal serta tandatangan lembar persetujuan	
10.	Senin, 26 Februari 2024	17.00-18.00	Whatsapp	Konsultasi pengujian nilai SPF, pengujian iritasi dan permohonan untuk pengajuan kode etik	
11.	Selasa, 27 Februari 2024	09.00-10.00	Whatsapp	Konsultasi formula	
12.	Jumat, 22 Maret 2024	09.30-11.30	Rumah Ibu	Bimbingan konsultasi formula dan prosedur	
13.	Senin, 29 April 2024	09.30-12.00	Zoom meeting	Presentasi Laporan Kemajuan 1 TA 2	
14.	Kamis, 2 Mei 2024	11.30-12.00	Whatsapp	Bimbingan konsultasi prosedur formulasi	
15.	Senin, 6 Mei 2024	14.30-16.00	Whatsapp	Bimbingan konsultasi prosedur formulasi dan hasil evaluasi sediaan	
16.	Kamis, 23 Mei 2024	10.00-12.00	Zoom Meeting	Presentasi Laporan Kemajuan 2 TA 2	
17.	Jumat, 19 Juli 2024	10.30-12.00	Kampus UBK	Konsultasi laporan akhir	

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

KARTU BIMBINGAN TUGAS AKHIR I/TUGAS AKHIR II

Pembimbing Serta	: Ira Adiyati Rum, M.Si.
Nama Mahasiswa	: Salsa Davincy Putri
NPM	: 201FF03076
Bidang Ilmu	: Farmasetika dan Teknologi Farmasi (FTF)

No	Hari/Tanggal	Waktu	Tempat	Materi	Paraf Dosen
1.	Kamis, 2 November 2023	13.00-14.30	Kampus UBK	Perkenalan dan pemaparan tema dan judul tugas akhir	<i>J. R.</i>
2.	Kamis, 23 November 2023	10.00-13.30	Zoom Meeting	Presentasi kemajuan 1	<i>J. R.</i>
3.	Rabu, 29 November 2023	18.00-20.00	Zoom Meeting	Pembahasan terkait AI ChatGPT untuk membantu proses penelitian	<i>J. R.</i>
4.	Selasa, 12 Desember 2023	15.30-17.00	Zoom Meeting	Pembahasan dan Revisi BAB 2	<i>J. R.</i>
5.	Kamis, 04 Januari 2024	16.00-17.00	Zoom Meeting	Pembahasan dan Revisi Bab 3	<i>J. R.</i>
6.	Senin, 08 Januari 2024	16.00-17.00	Zoom Meeting	Pemberian tips public speaking untuk persiapan sidang seminar proposal	<i>J. R.</i>
7.	Selasa, 09 Januari 2024	16.00-17.00	Zoom Meeting	Pengecekan dan pembahasan draft proposal	<i>J. R.</i>
8.	Rabu, 10 Januari 2024	13.00-13.30	Kampus UBK	Tandatangan lembar persetujuan proposal	<i>J. R.</i>
9.	Kamis, 11 Januari 2024	16.00-17.00	Zoom Meeting	Latihan presentasi untuk persiapan sidang seminar proposal	<i>J. R.</i>
10	Jumat, 26 April 2024	08.00-10.30	Zoom Meeting	Bimbingan dan Presentasi laporan kemajuan 1 TA 2	<i>J. R.</i>
11	Kamis, 2 Mei 2024	12.00-13.00	Kampus UBK	Bimbingan progress penelitian	<i>J. R.</i>
12	Minggu, 19 Mei 2024	16.30-18.00	Zoom Meeting	Laporan progress penelitian	<i>J. R.</i>
13	Kamis, 23 Mei 2024	10.00-12.00	Zoom Meeting	Presentasi Laporan Kemajuan 2 TA 2	<i>J. R.</i>
14	Senin, 8 Juli 2024	16.00-17.00	Zoom Meeting	Bimbingan laporan akhir	<i>J. R.</i>
15	Selasa, 9 Juli 2024	14.00-15.30	Kampus UBK	Bimbingan progress laporan akhir	<i>J. R.</i>
16	Sabtu, 13 Juli 2024	14.00-15.30	Zoom Meeting	Bimbingan revisi laporan akhir	<i>J. R.</i>
17	Selasa, 16 Juli 2024	12.30-14.00	Zoom Meeting	Konsultasi Abstrak	<i>J. R.</i>
18	Senin, 22 Juli 2024	16.00-17.00	Zoom Meeting	Presentasi laporan akhir	<i>J. R.</i>

Lampiran 29. Curriculum Vitae (CV) Penulis



☎ +62 857 2380 0463

✉ 201ff03076@bku.ac.id

📷 salsaadp

📍 Jl. PCI 2 Blok A3 No. 5, Kec.
Ngamprah, Kab. Bandung Barat

EDUCATION

SMKN 7 Bandung
Industrial Pharmacy
2017 – 2020

Bhakti Kencana University
Bachelor Degree of Pharmacy
2020 – 2024
GPA : 3.86 of 4.00

SKILLS

Ms Word

Ms Excel

Ms Powerpoint

Canva

Leadership

LANGUAGE

Indonesian (Native)

English (Basic)

SALSA DAVINCY

ABOUT ME

A fresh graduate of bachelor degree of pharmacy at Bhakti Kencana University. A curious person who loves to learn new things. Experienced in organizations where i honed my understanding in skills building such as communication, leadership and teamwork.

WORK EXPERIENCE

● Jan 2019 – Mar 2019
PT. Medion Farma Jaya

Research and Development Intern

Work in rotation of formulation and product testing at RnD unit. Weighing and dispensing amounts of powder or liquid raw materials for laboratory scale manufacture. Operated UV/Vis Spectroscopy, Karl Fischer, Moisture Analyzer, pH meter, Tap Density Tester and Shieve Shaker.

○ Jul 2019 – Sep 2019
PT. Marin Liza Farmasi

Quality Assurance Intern

Assisted reviewing batch records, including records of processing, packaging, and reports on the results of test or inspections during the process. Assisted of product complaints and product returns. Assisted qualification of water system, tablet production machine and calibration of analytical balances and volumetric flasks.

○ Oct 2023 – Feb 2024
MBKM Bhakti Kencana University
Academic Assistant

Assisted lecturers in running the practicum, prepared tools and materials for practicum participants, checking and assessing practicum participants' reports, supervising the practicum and being responsible for the practicum, maintain laboratory equipment and cleanliness.

ORGANIZATION EXPERIENCE

● 2022 – 2023
BEM KEMA FF UBK

Head Department of Minat dan Bakat

Bridging coordination between UKM and Community with the campus. Successfully organized the course work "Ormawa Festival" to accommodate student interests and talents. Monitoring activities carried out by UKM and Community.

○ Head of Division Liaison Officer Rakernas
Ismafarsi 23

Successfully being a liaison or companion between participants and the organizers of the 23rd Ismafarsi National Working Meeting, which was attended by 108 Pharmacy Student Executive Institutions throughout Indonesia.