L A M P I R A N

Lampiran 1. Hasil Determinasi

KEMENTERIAN PENDIDIKAN KEBUDAYAAN RISET, DAN TEKNOLOGI
UNIVERSITAS SEBELAS MARET
FAKULTAS MATEMATIKA DAN ILMU PENGETAHUAN ALAM
LABORATORIUM BIOLOGI
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Nomor : 062 /UN27.27.9.4/Lab/2021
H a l : Hasil Determinasi Hewan
Lampiran : -

Nama Pemesan : Salsabila Nur Fatiha
NIM : 24185548 A
Alamat : Program Studi S1 Farmasi FMIPA Universitas Sebelas Maret Surakarta

Hasil Identifikasi
Achatina fulica (Ferussac 1821)
Nama lokal : bekicot, *giant african land snail* , giant African snail
Sinonim : *Lissachatina fulica* Bowdich 1822; *Achatina achatina* Linne 1758; *Achatina (Lissachatina) fulica* (Férussac) 1821; *Achatina hamillei* Petit 1859; *Helix (Cochlitoma) fulica* Férussac, 1821; *Helix fulica* Férussac, 1821; *Lissachatina fulica* (Férussac) 1821

Deskripsi
Tubuh lunak; memiliki mantel dan tertutup cangkang keras dari bahan kapur; cangkang berbentuk kerucut (*conical*) dengan apex mengecil; spire melingkar ke kanan; memiliki 6 spire dan 1 whorl badan cukup besar; saluran sifon pendek; warna cangkang kombinasi coklat muda – bergaris garis coklat tua keunguan; panjang cangkang rata rata 5 sampai 10 cm – bisa mencapai lebih dari 20 cm; kepala terdapat sepasang tentakel fotoreseptor dan sepasang tentakel kemoreseptor, bagian perut terdapat otot yang digunakanuntuk berjalan;

Hierarki Klasifikasi
Filum : Mollusca
Kelas : Gastropoda
Ordo : Stylommatophora
Super familia : Achatinoidea
Familia : Achatinidae
Genus : *Achatina*
Spesies : *Achatina fulica* (Ferussac) 1821

Referensi

Animal Diversity Web,. 2021. *Achatina fulica* (Giant African Snail) http://animaldiversity.org/accounts/Achatina_fulica/ downloaded 16 September 2021.
Eversham, B. 2018. *Identifying land snails*. Ver 2.3. Bedfordshire Cambridgeshire Northamptonshire.
Integratic Taxonomic Information System. https://www.itis.gov/servlet/SingleRpt/SingleRpt?search_topic= TSN&search_value=76978#null. Downloaded 16 September 2021.

Surakarta, 17 September 2021

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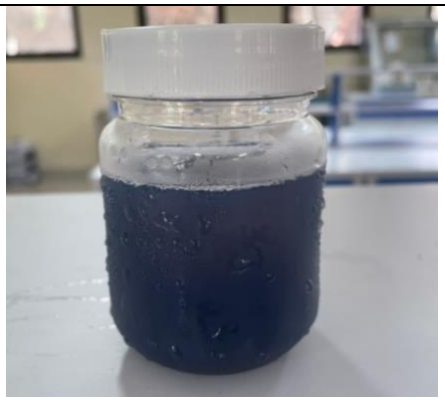
Lampiran 2. Hasil Identifikasi Protein

Gambar	Metode	Hasil
 **A B C**	**A.** Biuret **B.** Xantoprotein **C.** Ninhidrin	Hasil dari semua identifikasi ini menunjukkan positif mengandung protein

Lampiran 3. Alat dan Bahan Uji



Gambar lendir bekicot

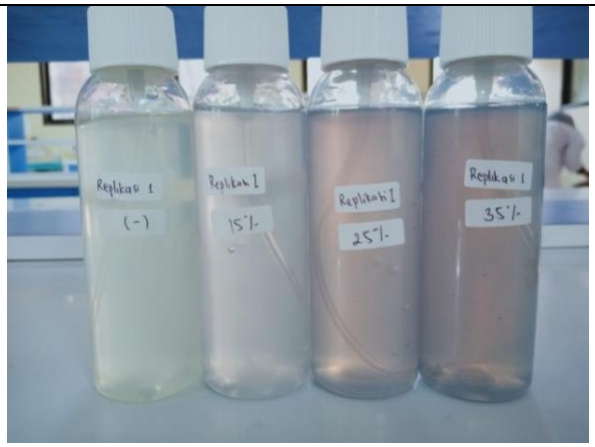
Gambar alat pengujian pH

Gambar alat pengujian viskositas

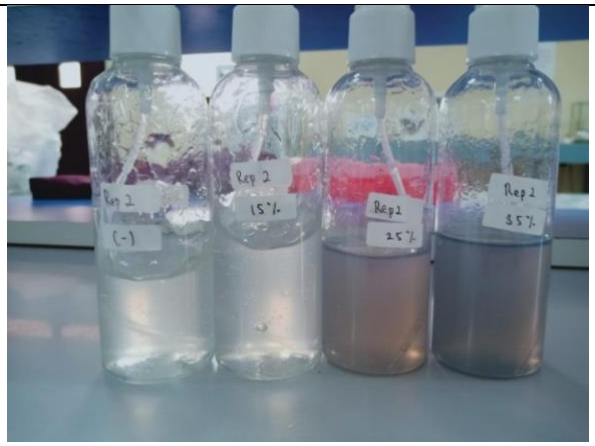
Gambar neraca analitik

Gambar alat sentrifugasi

Lampiran 4. Sediaan *Spray Gel* Lendir Bekicot



Replikasi 1 Sediaan *Spray Gel* Lendir Bekicot



Replikasi 2 Sediaan *Spray Gel* Lendir Bekicot

Replikasi 3 Sediaan *Spray Gel* Lendir Bekicot

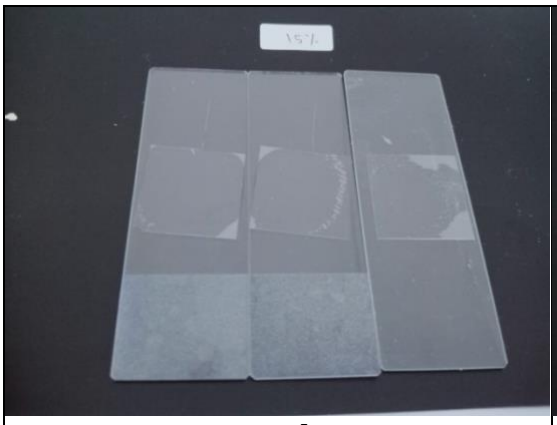
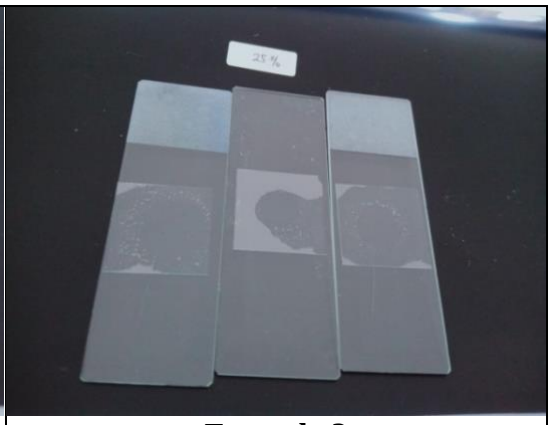
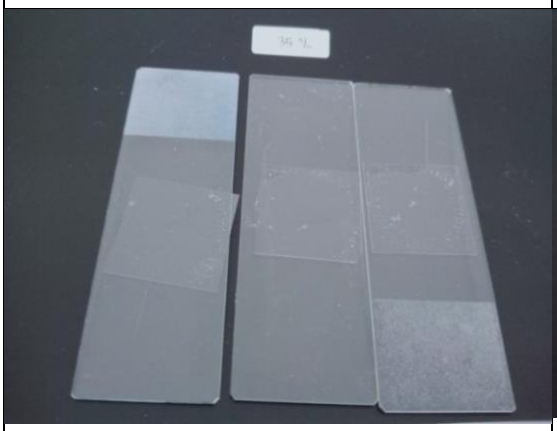
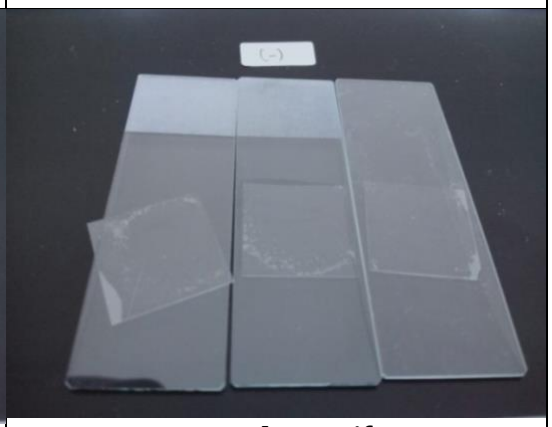
Lampiran 5. Hasil Pengujian *Cycling Test*

Replikasi 1 Sediaan *Spray Gel* Lendir Bekicot

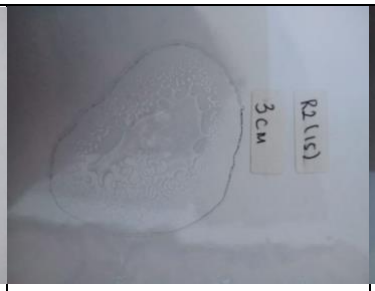
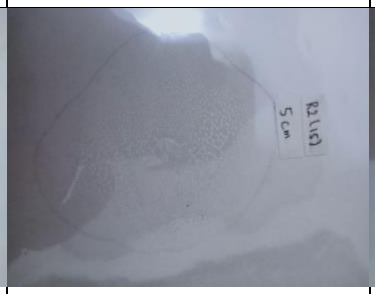
Replikasi 2 Sediaan *Spray Gel* Lendir Bekicot

Replikasi 3 Sediaan *Spray Gel* Lendir Bekicot

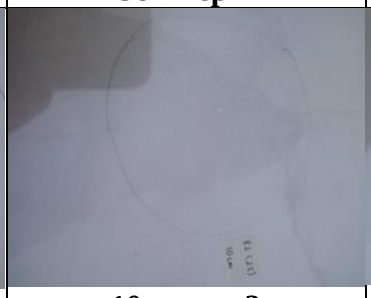
Lampiran 6. Hasil Pengujian Homogenitas

	
Formula 1	**Formula 2**
	
Formula 3	**Kotrol negatif**

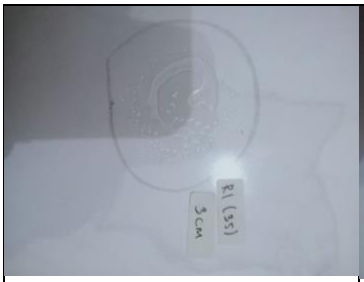
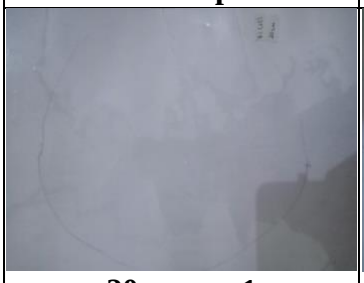
Lampiran 7. Gambar Pola Penyemprotan Formula 1

		
3cm rep 1	**3cm rep 2**	**3cm rep 3**
		
5cm rep 1	**5cm rep 2**	**5cm rep 3**
		
10cm rep 1	**10cm rep 2**	**10cm rep 3**
		
15cm rep 1	**15cm rep 2**	**15cm rep 3**
		
20cm rep 1	**20cm rep 2**	**20cm rep 3**

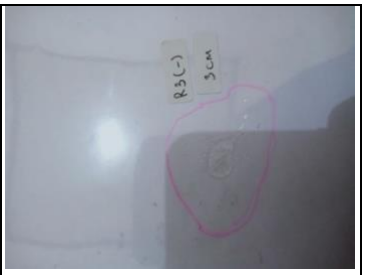
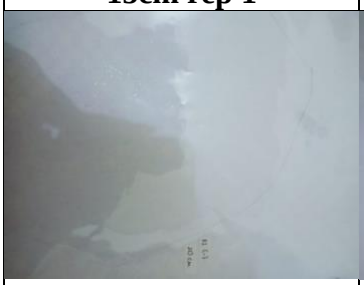
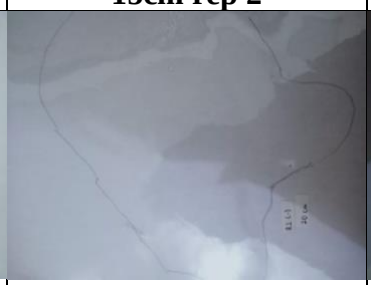
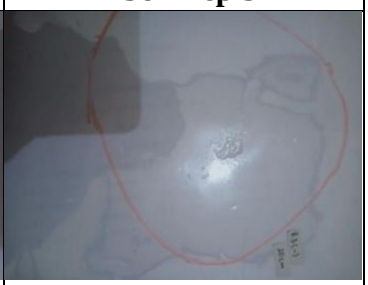
Lampiran 8. Gambar Pola Penyemprotan Formula 2

		
3cm rep 1	**3cm rep 2**	**3cm rep 3**
		
5cm rep 1	**5cm rep 2**	**5cm rep 3**
		
10cm rep 1	**10cm rep 2**	**10cm rep 3**
		
15cm rep 1	**15cm rep 2**	**15cm rep 3**
		
20cm rep 1	**20cm rep 2**	**20cm rep 3**

Lampiran 9. Gambar Pola Penyemprotan Formula 3

		
3cm rep 1	**3cm rep 2**	**3cm rep 3**
		
5cm rep 1	**5cm rep 2**	**5cm rep 3**
		
10cm rep 1	**10cm rep 2**	**10cm rep 3**
		
15cm rep 1	**15cm rep 2**	**15cm rep 3**
		
20cm rep 1	**20cm rep 2**	**20cm rep 3**

Lampiran 10. Gambar Pola Penyemprotan Kontrol negatif

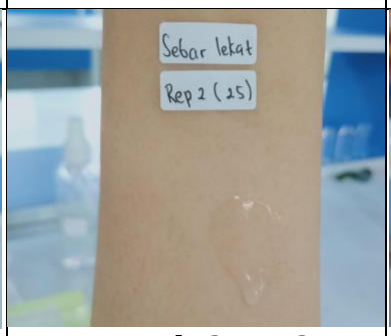
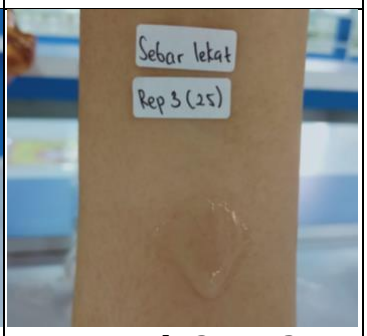
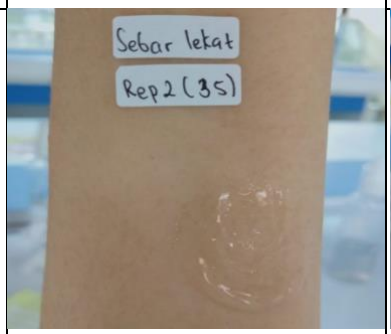
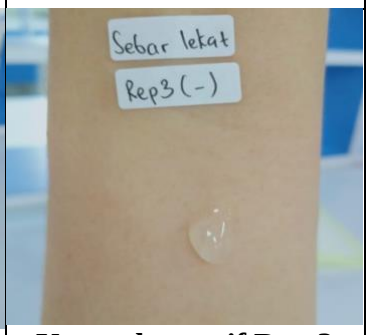
		
3cm rep 1	**3cm rep 2**	**3cm rep 3**
		
5cm rep 1	**5cm rep 2**	**5cm rep 3**
		
10cm rep 1	**10cm rep 2**	**10cm rep 3**
		
15cm rep 1	**15cm rep 2**	**15cm rep 3**
		
20cm rep 1	**20cm rep 2**	**20cm rep 3**

Lampiran 11. Hasil Pengujian Pola Penyemprotan dan Bobot per Semprot

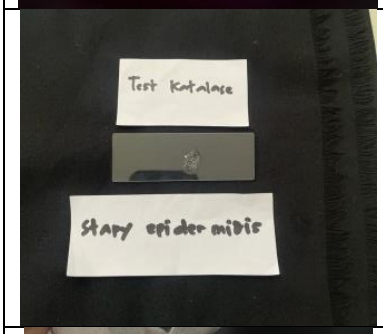
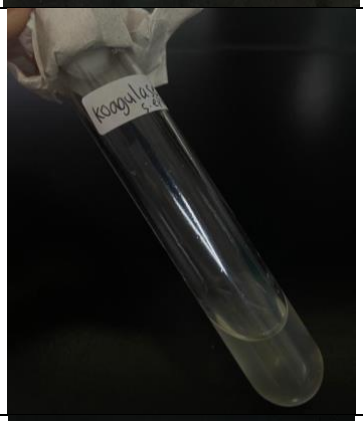
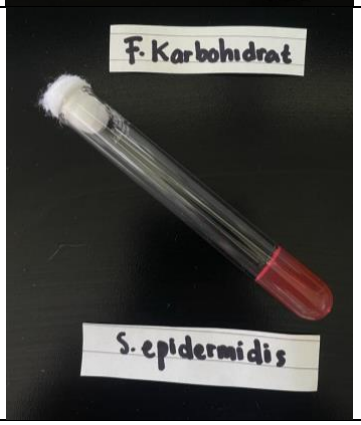
No.	Formula	Jarak	Replikasi	Diameter hasil semprotan (cm)	Rata-rata diameter		Bobot per gram (g)	Bobot rata-rata per jarak
1	Formula 1 (15%)	3 cm	1	4	3	3,5	0,136	0,136
2			2	3,5	2,5	3	0,140	
3			3	4,5	3	3,75	0,133	
4		5 cm	1	6,5	6	6,25	0,135	0,136
5			2	4,5	6	5,25	0,139	
6			3	5,5	6,5	6	0,133	
7		10 cm	1	11	10	10,5	0,133	0,133
8			2	10	9,5	9,75	0,134	
9			3	11	10,5	10,75	0,132	
10		15 cm	1	16	16	16	0,129	0,130
11			2	15,5	15	15,25	0,130	
12			3	16	14	15	0,132	
13		20 cm	1	20,5	18	19,25	0,125	0,128
14			2	21	18	19,5	0,127	
15			3	20,5	19	19,75	0,131	
16	Formula 2 (25%)	3 cm	1	4	4,5	4,25	0,133	0,133
17			2	4,5	4,5	4,5	0,132	
18			3	4,5	5	4,75	0,134	
19		5 cm	1	8	7,5	7,75	0,132	0,131
20			2	7	7	7	0,129	
21			3	7	7,5	7,25	0,131	
22		10 cm	1	13	12,5	12,75	0,130	0,129
23			2	12	12	12	0,128	
24			3	12	12,5	12,25	0,129	
25		15 cm	1	16	16	16	0,129	0,128
26			2	16	16,5	16,25	0,126	
27			3	16	17	16,5	0,128	
28		20 cm	1	21	20	20,5	0,127	0,125
29			2	20	20	20	0,123	
30			3	22	20	21	0,126	
31	Formula 3 (35%)	3 cm	1	4,5	5	4,75	0,133	0,137
32			2	4	4	4	0,144	
33			3	4	4,5	4,25	0,134	
34		5 cm	1	6,5	7,5	7	0,131	0,135
35			2	7,5	7	7,25	0,140	
36			3	7,5	7,5	7,5	0,133	
37		10 cm	1	13	12	12,5	0,128	0,132
38			2	13	11	12	0,138	
39			3	11,5	12	11,75	0,129	
40		15 cm	1	17	15	16	0,128	0,129
41			2	16,5	16	16,25	0,132	
42			3	16	15,5	15,75	0,127	
43		20 cm	1	20	19,5	19,75	0,123	0,123
44			2	19	21	20	0,122	
45			3	19	20	19,5	0,124	
46		3 cm	1	4	3	3,5	0,138	0,138
47			2	3,5	2,5	3	0,137	
48			3	4,5	3	3,75	0,140	

49	Kontrol negatif	5 cm	1	7	4	5,5	0,138	0,137
50			2	6	4,5	5,25	0,136	
51			3	5	5	5	0,138	
52		10 cm	1	8,5	6	7,25	0,137	0,133
53			2	7,5	6	6,75	0,136	
54			3	7,5	8	7,75	0,127	
55		15 cm	1	11	7,5	9,25	0,131	0,129
56			2	9,5	11	10,25	0,129	
57			3	12	7,5	9,75	0,126	
58		20 cm	1	14	15	14,5	0,134	0,130
59			2	14	13	13,5	0,135	
60			3	12,5	15,5	14	0,122	

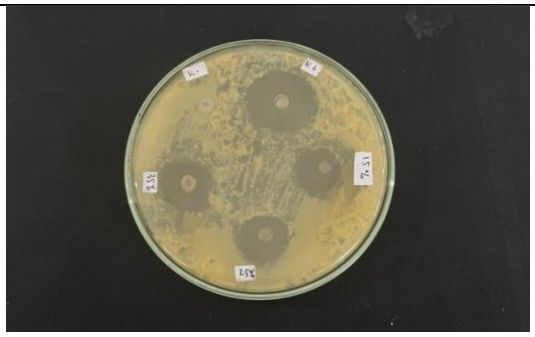
Lampiran 12. Hasil Pengujian Daya Sebar Lekat

		
Formula 1 Rep 1	**Formula 1 Rep 2**	**Formula 1 Rep 3**
		
Formula 2 Rep 1	**Formula 2 Rep 2**	**Formula 2 Rep 3**
		
Formula 3 Rep 1	**Formula 3 Rep 2**	**Formula 3 Rep 3**
		
Kontrol negatif Rep 1	**Kontrol negatif Rep 2**	**Kontrol negatif Rep 3**

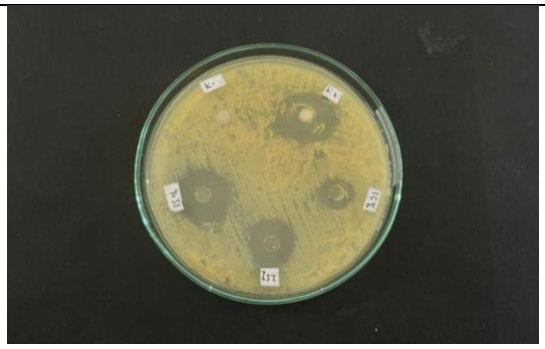
Lampiran 13. Hasil Identifikasi Bakteri *Staphylococcus epidermidis*

Gambar	Identifikasi	Hasil
	Pewarnaan gram	(+)Bulat, bergerombol seperti anggur, berwarna ungu
	Uji katalase	(+) Menghasilkan gelembung gas O2
	Uji koagulase	(+)Tidak terjadi penggumpalan plasma
	Fermentasi karbohidrat	(+)Tidak mengubah media menjadi kuning

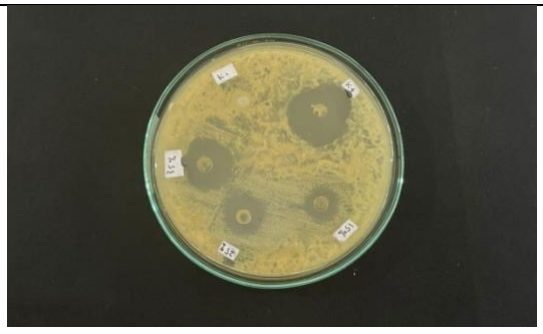
Lampiran 14. Hasil Identifikasi *Spray Gel* Lendir Bekicot terhadap Bakteri *Staphylococcus epidermidis*



Replikasi 1



Replikasi 2



Replikasi 3

Lampiran 15. Hasil Pengujian Statistik pH Sediaan *Spray Gel*

Formula	Replikasi 1	Replikasi 2	Replikasi 3	Rata-rata±SD
Formula 1	5,94	5,97	5,87	5,93±0,05
Formula 2	6	6,02	5,99	6,00±0,02
Formula 3	6,06	6,07	6,04	6,06±0,02
Kontrol negatif	5,86	5,9	5,84	5,87±0,03

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Formula	Statistic	df	Sig.	Statistic	df	Sig.
pH_HariKe1	F1	.269	3	.	.949	3	.567
	F2	.253	3	.	.964	3	.637
	F3	.253	3	.	.964	3	.637
	Kontrol negatif	.253	3	.	.964	3	.637

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
pH_HariKe1	Based on Mean	2.445	3	8	.139
	Based on Median	.800	3	8	.528
	Based on Median and with adjusted df	.800	3	3.952	.556
	Based on trimmed mean	2.291	3	8	.155

ANOVA

pH_HariKe1

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.063	3	.021	20.826	.000
Within Groups	.008	8	.001		
Total	.071	11			

Multiple Comparisons

Dependent Variable: pH_HariKe1

Tukey HSD

(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval Lower Bound	Upper Bound
F1	F2	-.07667	.02593	.071	-.1597	.0064
	F3	-.13000*	.02593	.005	-.2130	-.0470
	Kontrol negatif	.06000	.02593	.174	-.0230	.1430
F2	F1	.07667	.02593	.071	-.0064	.1597
	F3	-.05333	.02593	.245	-.1364	.0297
	Kontrol negatif	.13667*	.02593	.003	.0536	.2197
F3	F1	.13000*	.02593	.005	.0470	.2130
	F2	.05333	.02593	.245	-.0297	.1364
	Kontrol negatif	.19000*	.02593	.000	.1070	.2730
Kontrol negatif	F1	-.06000	.02593	.174	-.1430	.0230
	F2	-.13667*	.02593	.003	-.2197	-.0536
	F3	-.19000*	.02593	.000	-.2730	-.1070

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

pH_HariKe1

Tukey HSD[a]

Formula	N	Subset for alpha = 0.05 1	2	3
Kontrol negatif	3	5.8667		
F1	3	5.9267	5.9267	
F2	3		6.0033	6.0033
F3	3			6.0567
Sig.		.174	.071	.245

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

Lampiran 16. Hasil Pengujian Statistik pH Setelah *Cycling Test*

Formula	Replikasi 1	Replikasi 2	Replikasi 3	Rata-rata±SD
Formula 1	5,95	5,98	5,89	5,94±0,05
Formula 2	6,01	6,02	5,99	6,01±0,02
Formula 3	6,06	6,08	6,05	6,06±0,02
Kontrol negatif	5,85	5,91	5,9	5.89±0,03

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Formula	Statistic	df	Sig.	Statistic	df	Sig.
pH_SebelumCyclingTest	F1	.269	3		.949	3	.567
	F2	.253	3		.964	3	.637
	F3	.253	3		.964	3	.637
	Kontrol negatif	.253	3		.964	3	.637
pH_SetelahCyclingTest	F1	.253	3		.964	3	.637
	F2	.253	3		.964	3	.637
	F3	.253	3		.964	3	.637
	Kontrol negatif	.328	3		.871	3	.298

a. Lilliefors Significance Correction

Paired Samples Test

		Paired Differences							
					95% Confidence Interval of the Difference				
		Mean	Std. Deviation	Std. Error Mean	Lower	Upper	t	Df	Sig. (2-tailed)
Pair 1	pH_SebelumCyclingTest -pH_SetelahCyclingTest	-.01083	.01730	.00499	-.02182	.00016	-2.169	11	.053

Lampiran 17. Hasil Pengujian Statistik Viskositas Sediaan *Spray Gel*

Formula	Replikasi 1	Replikasi 2	Replikasi 3	Rata-rata±SD
Formula 1	2070	2050	1950	2023±64
Formula 2	1400	1650	1750	1600±180
Formula 3	785	740	650	725±69
Kontrol negatif	2400	2250	2200	2283±104

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Formula	Statistic	Df	Sig.	Statistic	df	Sig.
Viskositas_HariKe1	F1	.328	3	.	.871	3	.298
	F2	.276	3		.942	3	.537
	F3	.253	3		.964	3	.637
	Kontrol negatif	.292	3		.923	3	.463

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
Viskositas_HariKe1	Based on Mean	2.059	3	8	.184
	Based on Median	.556	3	8	.659
	Based on Median and with adjusted df	.556	3	4.731	.668
	Based on trimmed mean	1.898	3	8	.208

ANOVA

Viskositas_HariKe1

	Sum of Squares	Df	Mean Square	F	Sig.
Between Groups	4195089.583	3	1398363.194	107.171	.000
Within Groups	104383.333	8	13047.917		
Total	4299472.917	11			

Multiple Comparisons

Dependent Variable: Viskositas_HariKe1

Tukey HSD

(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Co Lower Bour
F1	F2	423.333*	93.266	.008	124
	F3	1298.333*	93.266	.000	999
	Kontrol negatif	-260.000	93.266	.090	-558
F2	F1	-423.333*	93.266	.008	-722
	F3	875.000*	93.266	.000	576
	Kontrol negatif	-683.333*	93.266	.000	-982
F3	F1	-1298.333*	93.266	.000	-1597
	F2	-875.000*	93.266	.000	-1173
	Kontrol negatif	-1558.333*	93.266	.000	-1857
Kontrol negatif	F1	260.000	93.266	.090	-38
	F2	683.333*	93.266	.000	384
	F3	1558.333*	93.266	.000	1259

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

Viskositas_HariKe1

Tukey HSD[a]

Formula	N	Subset for alpha = 0.05		
		1	2	3
F3	3	725.00		
F2	3		1600.00	
F1	3			2023.33
Kontrol negatif	3			2283.33
Sig.		1.000	1.000	.090

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

Lampiran 18. Hasil Pengujian Statistik Viskositas Setelah *Cycling Test*

Formula	Replikasi 1	Replikasi 2	Replikasi 3	Rata-rata±SD
Formula 1	2060	2030	1950	2013±57
Formula 2	1380	1610	1750	1580±187
Formula 3	765	735	650	717±60
Kontrol negatif	2425	2240	2180	2282±128

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Formula	Statistic	df	Sig.	Statistic	df	Sig.
Viskositas_sebelumCycling	F1	.328	3	.	.871	3	.298
	F2	.276	3	.	.942	3	.537
	F3	.253	3	.	.964	3	.637
	Kontrol negatif	.292	3	.	.923	3	.463
Viskositas_setelahCycling	F1	.282	3	.	.936	3	.510
	F2	.230	3	.	.981	3	.734
	F3	.287	3	.	.929	3	.485
	Kontrol negatif	.295	3	.	.920	3	.453

a. Lilliefors Significance Correction

Paired Samples Test

		Paired Differences					t	df	Sig. (2-tailed)
		Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference Lower	Upper			
Pair 1	Viskositas_sebelumCycling - Viskositas_setelahCycling	10.000	16.096	4.647	-.227	20.227	2.152	11	.054

Lampiran 19. Hasil Pengujian Statistik Bobot Penyemprotan Sediaan *Spray Gel*

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Bobot_Penyemprotan	Statistic	df	Sig.	Statistic	df	Sig.
cm_3	Formula 1	.204	3	.	.993	3	.843
	Formula 2	.175	3	.	1.000	3	1.000
	Formula 3	.356	3	.	.818	3	.157
	Kontrol Negatif	.253	3	.	.964	3	.637
cm_5	Formula 1	.253	3	.	.964	3	.637
	Formula 2	.253	3	.	.964	3	.637
	Formula 3	.304	3	.	.907	3	.407
	Kontrol Negatif	.385	3	.	.750	3	.000
cm_10	Formula 1	.175	3	.	1.000	3	1.000
	Formula 2	.175	3	.	1.000	3	1.000
	Formula 3	.353	3	.	.824	3	.174
	Kontrol Negatif	.353	3	.	.824	3	.174
cm_15	Formula 1	.253	3	.	.964	3	.637
	Formula 2	.253	3	.	.964	3	.637
	Formula 3	.314	3	.	.893	3	.363
	Kontrol Negatif	.219	3	.	.987	3	.780
cm_20	Formula 1	.253	3	.	.964	3	.637
	Formula 2	.292	3	.	.923	3	.463
	Formula 3	.175	3	.	1.000	3	1.000
	Kontrol Negatif	.361	3	.	.807	3	.132

a. Lilliefors Significance Correction

Ranks

	Bobot_Penyemprotan	N	Mean Rank
cm_3	Formula 1	3	6.83
	Formula 2	3	3.17
	Formula 3	3	6.83
	Kontrol Negatif	3	9.17
	Total	12	
cm_5	Formula 1	3	7.83

m_5		Formula 2	3	2.50
		Formula 3	3	6.67
		Kontrol Negatif	3	9.00
		Total	1 2	
m_10	c	Formula 1	3	7.50
		Formula 2	3	3.00
		Formula 3	3	8.17
		Kontrol Negatif	3	7.33
		Total	1 2	
m_15	c	Formula 1	3	9.17
		Formula 2	3	4.33
		Formula 3	3	6.33
		Kontrol Negatif	3	6.17
		Total	1 2	
m_20	c	Formula 1	3	8.17
		Formula 2	3	6.33
		Formula 3	3	3.33
		Kontrol Negatif	3	8.17
		Total	1 2	

Test Statistics[a,b]

	cm_3	cm_5	cm_10	cm_15	cm_20
Kruskal-Wallis H	4.348	5.610	1.782	2.826	3.641
df	3	3	3	3	3
Asymp. Sig.	.226	.132	.619	.419	.303

a. Kruskal Wallis Test

b. Grouping Variable: Bobot_Penyemprotan

Ranks

	Bobot_Penyemprotan	N	Mean Rank	Sum of Ranks
cm_3	Formula 1	3	4.50	13.50
	Formula 2	3	2.50	7.50
	Total	6		
cm_5	Formula 1	3	5.00	15.00

	Formula 2	3	2.00	6.00
	Total	6		
cm_10	Formula 1	3	5.00	15.00
	Formula 2	3	2.00	6.00
	Total	6		
cm_15	Formula 1	3	4.83	14.50
	Formula 2	3	2.17	6.50
	Total	6		
cm_20	Formula 1	3	4.17	12.50
	Formula 2	3	2.83	8.50
	Total	6		

Test Statistics[a]

	cm_3	cm_5	cm_10	cm_15	cm_20
Mann-Whitney U	1.500	.000	.000	.500	2.500
Wilcoxon W	7.500	6.000	6.000	6.500	8.500
Z	-1.328	-1.964	-1.964	-1.771	-.886
Asymp. Sig. (2-tailed)	.184	.050	.050	.077	.376
Exact Sig. [2*(1-tailed Sig.)]	.200[b]	.100[b]	.100[b]	.100[b]	.400[b]

a. Grouping Variable: Bobot_Penyemprotan

b. Not corrected for ties.

Ranks

	Bobot_Penyemprotan	N	Mean Rank	Sum of Ranks
cm_3	Formula 1	3	3.50	10.50
	Formula 3	3	3.50	10.50
	Total	6		
cm_5	Formula 1	3	3.83	11.50
	Formula 3	3	3.17	9.50
	Total	6		
cm_10	Formula 1	3	4.00	12.00
	Formula 3	3	3.00	9.00
	Total	6		
cm_15	Formula 1	3	4.17	12.50
	Formula 3	3	2.83	8.50

	Total	6		
cm_20	Formula 1	3	5.00	15.00
	Formula 3	3	2.00	6.00
	Total	6		

Test Statistics[a]

	cm_3	cm_5	cm_10	cm_15	cm_20
Mann-Whitney U	4.500	3.500	3.000	2.500	.000
Wilcoxon W	10.500	9.500	9.000	8.500	6.000
Z	.000	-.443	-.655	-.886	-1.964
Asymp. Sig. (2-tailed)	1.000	.658	.513	.376	.050
Exact Sig. [2*(1-tailed Sig.)]	1.000[b]	.700[b]	.700[b]	.400[b]	.100[b]

a. Grouping Variable: Bobot_Penyemprotan

b. Not corrected for ties.

Ranks

	Bobot_Penyemprotan	N	Mean Rank	Sum of Ranks
cm_3	Formula 1	3	2.83	8.50
	Kontrol Negatif	3	4.17	12.50
	Total	6		
cm_5	Formula 1	3	3.00	9.00
	Kontrol Negatif	3	4.00	12.00
	Total	6		
cm_10	Formula 1	3	3.00	9.00
	Kontrol Negatif	3	4.00	12.00
	Total	6		
cm_15	Formula 1	3	4.17	12.50
	Kontrol Negatif	3	2.83	8.50
	Total	6		
cm_20	Formula 1	3	3.00	9.00
	Kontrol Negatif	3	4.00	12.00
	Total	6		

Test Statistics[a]

	cm_3	cm_5	cm_10	cm_15	cm_20
Mann-Whitney U	2.500	3.000	3.000	2.500	3.000
Wilcoxon W	8.500	9.000	9.000	8.500	9.000
Z	-.886	-.664	-.655	-.886	-.655

Asymp. Sig. (2-tailed)	.376	.507	.513	.376	.513
Exact Sig. [2*(1-tailed Sig.)]	.400[b]	.700[b]	.700[b]	.400[b]	.700[b]

a. Grouping Variable: Bobot_Penyemprotan

b. Not corrected for ties.

Ranks

	Bobot_Penyemprotan	N	Mean Rank	Sum of Ranks
cm_3	Formula 2	3	2.67	8.00
	Formula 3	3	4.33	13.00
	Total	6		
cm_5	Formula 2	3	2.50	7.50
	Formula 3	3	4.50	13.50
	Total	6		
cm_10	Formula 2	3	3.33	10.00
	Formula 3	3	3.67	11.00
	Total	6		
cm_15	Formula 2	3	3.17	9.50
	Formula 3	3	3.83	11.50
	Total	6		
cm_20	Formula 2	3	4.50	13.50
	Formula 3	3	2.50	7.50
	Total	6		

Test Statistics[a]

	cm_3	cm_5	cm_10	cm_15	cm_20
Mann-Whitney U	2.000	1.500	4.000	3.500	1.500
Wilcoxon W	8.000	7.500	10.000	9.500	7.500
Z	-1.124	-1.328	-.225	-.443	-1.328
Asymp. Sig. (2-tailed)	.261	.184	.822	.658	.184
Exact Sig. [2*(1-tailed Sig.)]	.400[b]	.200[b]	1.000[b]	.700[b]	.200[b]

a. Grouping Variable: Bobot_Penyemprotan

b. Not corrected for ties.

Ranks

	Bobot_Penyemprotan	N	Mean Rank	Sum of Ranks
cm_3	Formula 2	3	2.00	6.00
	Kontrol Negatif	3	5.00	15.00

	Total	6		
cm_5	Formula 2	3	2.00	6.00
	Kontrol Negatif	3	5.00	15.00
	Total	6		
cm_10	Formula 2	3	3.00	9.00
	Kontrol Negatif	3	4.00	12.00
	Total	6		
cm_15	Formula 2	3	3.00	9.00
	Kontrol Negatif	3	4.00	12.00
	Total	6		
cm_20	Formula 2	3	3.00	9.00
	Kontrol Negatif	3	4.00	12.00
	Total	6		

Test Statistics[a]

	cm_3	cm_5	cm_10	cm_15	cm_20
Mann-Whitney U	.000	.000	3.000	3.000	3.000
Wilcoxon W	6.000	6.000	9.000	9.000	9.000
Z	-1.964	-1.993	-.655	-.674	-.655
Asymp. Sig. (2-tailed)	.050	.046	.513	.500	.513
Exact Sig. [2*(1-tailed Sig.)]	.100[b]	.100[b]	.700[b]	.700[b]	.700[b]

a. Grouping Variable: Bobot_Penyemprotan

b. Not corrected for ties.

Ranks

	Bobot_Penyemprotan	N	Mean Rank	Sum of Ranks
cm_3	Formula 3	3	3.00	9.00
	Kontrol Negatif	3	4.00	12.00
	Total	6		
cm_5	Formula 3	3	3.00	9.00
	Kontrol Negatif	3	4.00	12.00
	Total	6		
cm_10	Formula 3	3	3.67	11.00
	Kontrol Negatif	3	3.33	10.00
	Total	6		
cm_15	Formula 3	3	3.67	11.00
	Kontrol Negatif	3	3.33	10.00
	Total	6		

cm_20	Formula 3	3	2.83	8.50
	Kontrol Negatif	3	4.17	12.50
	Total	6		

Test Statistics[a]

	cm_3	cm_5	cm_10	cm_15	cm_20
Mann-Whitney U	3.000	3.000	4.000	4.000	2.500
Wilcoxon W	9.000	9.000	10.000	10.000	8.500
Z	-.655	-.664	-.218	-.218	-.886
Asymp. Sig. (2-tailed)	.513	.507	.827	.827	.376
Exact Sig. [2*(1-tailed Sig.)]	.700[b]	.700[b]	1.000[b]	1.000[b]	.400[b]

a. Grouping Variable: Bobot_Penyemprotan

b. Not corrected for ties.

Lampiran 20. Hasil Pengujian Statistik Waktu Mengering Sediaan *Spray Gel*

Formula	Replikasi 1	Replikasi 2	Replikasi 3	Rata-rata±SD
Formula 1	4;41”	4’52”	4’57”	4’50”±0’08”
Formula 2	4’24”	4’31”	4’25”	4’27”±0’04”
Formula 3	4’11”	4’28”	4’21”	4’20”±0’09”
Kontrol negatif	5’06”	5’02”	5’07”	5’05”±0’03”

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Formula	Statistic	df	Sig.	Statistic	df	Sig.
UjiWaktuKering	F1	.263	3	.	.955	3	.593
	F2	.337	3	.	.855	3	.253
	F3	.213	3	.	.990	3	.806
	Kontrol negatif	.314	3	.	.893	3	.363

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
UjiWaktuKering	Based on Mean	1.498	3	8	.287
	Based on Median	.702	3	8	.577
	Based on Median and with adjusted df	.702	3	5.852	.585
	Based on trimmed mean	1.436	3	8	.303

ANOVA

UjiWaktuKering

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	1.341	3	.447	110.795	.000
Within Groups	.032	8	.004		
Total	1.373	11			

Multiple Comparisons

Dependent Variable: UjiWaktuKering

Tukey HSD

(I) Formula	(J) Formula	Mean	Std.	Sig.	95% Confidence Interval

		Difference (I-J)	Error		Lower Bound	Upper Bound
F1	F2	.23333*	.05185	.009	.0673	.3994
	F3	.30000*	.05185	.002	.1339	.4661
	Kontrol negative	-.55000*	.05185	.000	-.7161	-.3839
F2	F1	-.23333*	.05185	.009	-.3994	-.0673
	F3	.06667	.05185	.596	-.0994	.2327
	Kontrol negative	-.78333*	.05185	.000	-.9494	-.6173
F3	F1	-.30000*	.05185	.002	-.4661	-.1339
	F2	-.06667	.05185	.596	-.2327	.0994
	Kontrol negative	-.85000*	.05185	.000	-1.0161	-.6839
Kontrol negatif	F1	.55000*	.05185	.000	.3839	.7161
	F2	.78333*	.05185	.000	.6173	.9494
	F3	.85000*	.05185	.000	.6839	1.0161

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

UjiWaktuKering

Tukey HSD[a]

		Subset for alpha = 0.05		
Formula	N	1	2	3
F3	3	4.2000		
F2	3	4.2667		
F1	3		4.5000	
Kontrol negatif	3			5.0500
Sig.		.596	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

Lampiran 21. Hasil Pengujian Statistik Daya Hambat Sediaan *Spray Gel*

Formula	Replikasi 1	Replikasi 2	Replikasi 3	Rata-rata±SD
Formula 1	12,78	11,28	11,37	11,81±0,84
Formula 2	15,42	14,48	13,89	14,60±0,77
Formula 3	17,05	17,38	17,29	17,24±0,17
Kontrol negatif	0	0	0	0±0
Kontrol positif	21,23	20,86	22,02	21,37±0,59

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Formula	Statistic	df	Sig.	Statistic	df	Sig.
UjiDayaHambat	F1	.366	3	.	.795	3	.102
	F2	.227	3	.	.983	3	.749
	F3	.282	3	.	.936	3	.510
	K+	.260	3	.	.958	3	.606

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
UjiDayaHambat	Based on Mean	2.048	3	8	.186
	Based on Median	.409	3	8	.751
	Based on Median and with adjusted df	.409	3	4.484	.755
	Based on trimmed mean	1.855	3	8	.215

ANOVA

UjiDayaHambat

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	148.925	3	49.642	117.960	.000
Within Groups	3.367	8	.421		
Total	152.291	11			

Multiple Comparisons

Dependent Variable: UjiDayaHambat

Tukey HSD

(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
F1	F2	-2.78667*	.52967	.003	-4.4829	-1.0905
	F3	-5.43000*	.52967	.000	-7.1262	-3.7338
	K+	-9.56000*	.52967	.000	-11.2562	-7.8638
F2	F1	2.78667*	.52967	.003	1.0905	4.4829
	F3	-2.64333*	.52967	.005	-4.3395	-.9471
	K+	-6.77333*	.52967	.000	-8.4695	-5.0771
F3	F1	5.43000*	.52967	.000	3.7338	7.1262
	F2	2.64333*	.52967	.005	.9471	4.3395
	K+	-4.13000*	.52967	.000	-5.8262	-2.4338
K+	F1	9.56000*	.52967	.000	7.8638	11.2562
	F2	6.77333*	.52967	.000	5.0771	8.4695
	F3	4.13000*	.52967	.000	2.4338	5.8262

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

UjiDayaHambat

Tukey HSD[a]

Formula	N	Subset for alpha = 0.05			
		1	2	3	4
F1	3	11.8100			
F2	3		14.5967		
F3	3			17.2400	
K+	3				21.3700
Sig.		1.000	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.