LAMPIRAN

Lampiran 1 Formula Krim Eksrak bunga telang

Formula krim	Berat
Ekstrak	5g
Setasium	14g
Cera Alba	14g
Parrafin cair	57g
Borak	0,5g
Aquades	9,5ml

Lampiran 2. Analisis statistik Viskositas

Case Processing Summary

		Cases				
		Valid		Missing		Total
	Hasil_uji	N	Percent	N	Percent	N
Viskositas	Hasil uji proses optimum	3	100.0%	0	0.0%	3
	Hasil Prediksi	3	100.0%	0	0.0%	3

Descriptives

	Hasil_uji			Statistic	Std. Error
Viskositas	Hasil uji proses optimum	Mean		3480.3333	249.83350
		95% Confidence Interval for Mean	Lower Bound	2405.3865	
			Upper Bound	4555.2801	
		5% Trimmed Mean		.	
		Median		3231.0000	
		Variance		187250.333	
		Std. Deviation		432.72432	
		Minimum		3230.00	
		Maximum		3980.00	
		Range		750.00	
		Interquartile Range		.	
		Skewness		1.732	1.225
		Kurtosis		.	.
	Hasil Prediksi	Mean		7710.0000	.00000
		95% Confidence Interval for Mean	Lower Bound	7710.0000	
			Upper Bound	7710.0000	
		5% Trimmed Mean		7710.0000	
		Median		7710.0000	
		Variance		.000	
		Std. Deviation		.00000	
		Minimum		7710.00	
		Maximum		7710.00	
		Range		.00	
		Interquartile Range		.00	
		Skewness		.	.
		Kurtosis		.	.

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Hasil_uji	Statistic	df	Sig.	Statistic	df	Sig.
Viskositas	Hasil uji proses optimum	.384	3	.	.751	3	.002
	Hasil Prediksi	.	3	.	.	3	.

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
Viskositas	Based on Mean	16.000	1	4	.016
	Based on Median	1.004	1	4	.373
	Based on Median and with adjusted df	1.004	1	2.000	.422
	Based on trimmed mean	12.608	1	4	.024

Mann-Whitney Test

Ranks

	Hasil_uji	N	Mean Rank	Sum of Ranks
Viskositas	Hasil uji proses optimum	3	2.00	6.00
	Hasil Prediksi	3	5.00	15.00
	Total	6		

Test Statistics[a]

	Viskositas
Mann-Whitney U	.000
Wilcoxon W	6.000
Z	-2.087
Asymp. Sig. (2-tailed)	.037
Exact Sig. [2*(1-tailed Sig.)]	.100[b]

a. Grouping Variable: Hasil_uji
b. Not corrected for ties.

Lampiran 3 Analisis statistik Daya sebar

Case Processing Summary

		Cases					
		Valid		Missing		Total	
	Hasil_uji	N	Percent	N	Percent	N	Percent
Daya_sebar	Hasil proses optimum	3	100.0%	0	0.0%	3	100.0%
	Hasil prediksi	3	100.0%	0	0.0%	3	100.0%

Descriptives

	Hasil_uji			Statistic	Std. Error
Daya_sebar	Hasil proses optimum	Mean		4.2333	.17638
		95% Confidence Interval for Mean	Lower Bound	3.4744	
			Upper Bound	4.9922	
		5% Trimmed Mean		.	
		Median		4.3000	
		Variance		.093	
		Std. Deviation		.30551	
		Minimum		3.90	
		Maximum		4.50	
		Range		.60	
		Interquartile Range		.	
		Skewness		-.935	1.225
		Kurtosis		.	.
	Hasil prediksi	Mean		4.1330	.00000
		95% Confidence Interval for Mean	Lower Bound	4.1330	
			Upper Bound	4.1330	
		5% Trimmed Mean		4.1330	
		Median		4.1330	
		Variance		.000	
		Std. Deviation		.00000	
		Minimum		4.13	
		Maximum		4.13	
		Range		.00	
		Interquartile Range		.00	
		Skewness		.	.
		Kurtosis		.	.

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Hasil_uji	Statistic	df	Sig.	Statistic	df	Sig.
Daya_sebar	Hasil proses optimum	.253	3	.	.964	3	.637
	Hasil prediksi	.	3	.	.	3	.

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
Daya_sebar	Based on Mean	7.692	1	4	.050
	Based on Median	3.000	1	4	.158
	Based on Median and with adjusted df	3.000	1	2.000	.225
	Based on trimmed mean	7.289	1	4	.054

T-Test

Group Statistics

	Hasil_uji	N	Mean	Std. Deviation	Std. Error Mean
Daya_sebar	Hasil proses optimum	3	4.2333	.30551	.17638
	Hasil prediksi	3	4.1330	.00000	.00000

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						
									95% Confidence Interval of the Difference	
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	Lower	Upper
Daya_sebar	Equal variances assumed	7.692	.050	.569	4	.600	.10033	.17638	-.38939	.59005
	Equal variances not assumed			.569	2.000	.627	.10033	.17638	-.65858	.85925

Lampiran 4 Analisis statistik Daya lekat

Case Processing Summary

		Cases					
		Valid		Missing		Total	
	Hasil_uji	N	Percent	N	Percent	N	Percent
Daya_lekat	Hasil proses optimum	3	100.0%	0	0.0%	3	100.0%
	hasil prediksi	3	100.0%	0	0.0%	3	100.0%

Descriptives

	Hasil_uji			Statistic	Std. Error
Daya_lekat	Hasil proses optimum	Mean		.6367	.05783
		95% Confidence Interval for Mean	Lower Bound	.3878	
			Upper Bound	.8855	
		5% Trimmed Mean		.	
		Median		.6000	
		Variance		.010	
		Std. Deviation		.10017	
		Minimum		.56	
		Maximum		.75	
		Range		.19	
		Interquartile Range		.	
		Skewness		1.427	1.225
		Kurtosis		.	.
	hasil prediksi	Mean		2.6660	.00000
		95% Confidence Interval for Mean	Lower Bound	2.6660	
			Upper Bound	2.6660	
		5% Trimmed Mean		2.6660	
		Median		2.6660	
		Variance		.000	
		Std. Deviation		.00000	
		Minimum		2.67	
		Maximum		2.67	
		Range		.00	
		Interquartile Range		.00	
		Skewness		.	.
		Kurtosis		.	.

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Hasil_uji	Statistic	df	Sig.	Statistic	df	Sig.
Daya_lekat	Hasil proses optimum	.310	3	.	.900	3	.384
	hasil prediksi	.	3	.	.	3	.

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
Daya_lekat	Based on Mean	11.647	1	4	.027
	Based on Median	1.994	1	4	.231
	Based on Median and with adjusted df	1.994	1	2.000	.293
	Based on trimmed mean	10.320	1	4	.033

T-Test

Group Statistics

	Hasil_uji	N	Mean	Std. Deviation	Std. Error Mean
Daya_lekat	Hasil proses optimum	3	.6367	.10017	.05783
	hasil prediksi	3	2.6660	.00000	.00000

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						
									95% Confidence Interval of the Difference	
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	Lower	Upper
Daya_lekat	Equal variances assumed	11.647	.027	-35.091	4	.000	-2.02933	.05783	-2.18990	-1.86877
	Equal variances not assumed			-35.091	2.000	.001	-2.02933	.05783	-2.27816	-1.78051

Lampiran 5. Analisis statistik pH

Case Processing Summary

		Cases					
		Valid		Missing		Total	
	Hasil_uji	N	Percent	N	Percent	N	Percent
pH	Hasil proses optimum	3	100.0%	0	0.0%	3	100.0%
	Hasil prediksi	3	100.0%	0	0.0%	3	100.0%

Descriptives

	Hasil_uji			Statistic	Std. Error
pH	Hasil proses optimum	Mean		5.2533	.03283
		95% Confidence Interval for Mean	Lower Bound	5.1121	
			Upper Bound	5.3946	
		5% Trimmed Mean		.	
		Median		5.2700	
		Variance		.003	
		Std. Deviation		.05686	
		Minimum		5.19	
		Maximum		5.30	
		Range		.11	
		Interquartile Range		.	
		Skewness		-1.206	1.225
		Kurtosis		.	.
	Hasil prediksi	Mean		5.6130	.00000
		95% Confidence Interval for Mean	Lower Bound	5.6130	
			Upper Bound	5.6130	
		5% Trimmed Mean		5.6130	
		Median		5.6130	
		Variance		.000	
		Std. Deviation		.00000	
		Minimum		5.61	
		Maximum		5.61	
		Range		.00	
		Interquartile Range		.00	
		Skewness		.	.
		Kurtosis		.	.

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Hasil_uji	Statistic	df	Sig.	Statistic	df	Sig.
pH	Hasil proses optimum	.282	3	.	.936	3	.510
	Hasil prediksi	.	3	.	.	3	.

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
pH	Based on Mean	9.563	1	4	.036
	Based on Median	2.469	1	4	.191
	Based on Median and with adjusted df	2.469	1	2.000	.257
	Based on trimmed mean	8.791	1	4	.041

T-Test

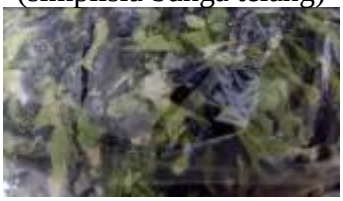
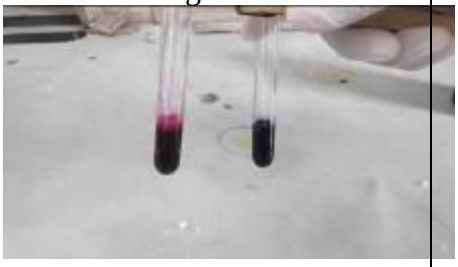
Group Statistics

	Hasil_uji	N	Mean	Std. Deviation	Std. Error Mean
pH	Hasil proses optimum	3	5.2533	.05686	.03283
	Hasil prediksi	3	5.6130	.00000	.00000

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						
									95% Confidence Interval of the Difference	
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	Lower	Upper
pH	Equal variances assumed	9.563	.036	-10.956	4	.000	-.35967	.03283	-.45082	-.26852
	Equal variances not assumed			-10.956	2.000	.008	-.35967	.03283	-.50092	-.21841

Lampiran 6. Dokumentasi Penelitian

No.	Foto dan Keterangan	No.	Foto dan Keterangan
1	Penyiapan sampel (simplisia bunga telang) 	2	Ekstraksi maserasi bunga telang 
3	Proses penyaringan hasil ekstraksi maserasi 	4	Proses rotary evaporator 
5	Ekstrak Kental 	6	Pengecekan kadar air ekstrak kental dengan alat moisturizer test 
7	Penimbangan ekstrak 	8	screening fitokimia 

9	Proses pecampuran 	10	Proses pembuatan krim 
11	Uji homogenitas 	12	Uji pH 
13	Uji daya sebar 	14	Uji daya lekat 
15	Uji viskositas 		

Lampiran 7 Surat Bebas Labolatorium

	FAKULTAS KEDOKTERAN PROGRAM STUDI FARMASI UNIVERSITAS ISLAM SULTAN AGUNG Jl. Raya Kaligawe Km.4, Semarang 50112, Jawa Tengah	No. Dokumen	FORM-SA-K-FARM-003
		TglBerlaku	Maret 2019
		No. Revisi	00
	FORM SuratBebasLaboratorium	Halaman	1 dari 1

SURAT KETERANGAN BEBAS LABORATORIUM
NOMOR : 04 / L-FK / 2021

Yang bertandatangandibawahinimenerangkanbahwa :

Nama : M. Dwi Yulianto
NIM : 33101300205
Semester : 15 (Lima Belas)
Program Studi : Farmasi
Alamat : Watu Putih Rt04/04 Wadas kec. Plantungan, Kendal

Sampai saatini yang bersangkutan tidak mempunyai tanggungan pinjaman alat-alat dan bahan laboratorium di lingkungan Prodi Farmasi Fakultas Kedokteran Unissula Semarang. Surat bebas lab ini dibuat untuk persyaratan mengikuti Ujian Skripsi dengan judul "OPTIMASI SUHU PENCAMPURAN DAN WAKTU PENGADUKAN TERHADAP FORMULA KRIM EKSTRAK BUNGA TELANG (*Clitoria ternatea Linn*) 5% DENGAN METODE DESAIN FAKTORIAL".

Demikian untuk menjadikan periksa bagi yang berkepentingan .

Semarang, 22 Februari 2021
Mengetahui.
Kepala Laboratorium Farmasi Unissula

Ika Buana Januarti, M.Sc.,Apt
N.K.211213007

Lampiran 8. Surat Skrining fitokimia

YAYASAN BADAN WAKAF SULTAN AGUNG
UNIVERSITAS ISLAM SULTAN AGUNG (UNISSULA)
Jl. Raya Kaligawe Km 4 Semarang 50112 Telp (024) 6583584 (8 Saf) Fax (024) 6583455
email: infofm.unisi@unissula.ac.id web: www.unissula.ac.id

PRODI FARMASI FK — Bismillah Membangun Generasi Khaira Ummah

LAPORAN HASIL UJI

No. Sertifikat : 03/LPF/II/2021

Informasi Peneliti

Nama : Dwi Yuliyanto

NIM : 33101300205

Tanggal Pengujian: 17 Desember 2020

Hasil Pengujian

Skrining Fitokimia Ekstrak Etanolik Bunga Telang (*Clitoria ternatea Linn*):

Parameter Uji	Reagen	Hasil Identifikasi	Metode	Kesimpulan
Flavonoid	Serbuk Mg dan HCl pekat	Merah	Tabung	Positif

Semarang, 22 Februari 2021

Laboran Prodi Farmasi
FK UNISSULA

Nisrina Nur Afifah Amd.AF

Kepala Laboratorium Farmasi Unissula

Ika Suana Januarti, M.Sc.,Apt

NIK.211213007