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Lampiran 1. Hasil determinasi herba pegagan



KEMENTERIAN KESEHATAN REPUBLIK INDONESIA

BADAN KEBIJAKAN PEMBANGUNAN KESEHATAN

BALAI BESAR PENELITIAN DAN PENGEMBANGAN

TANAMAN OBAT DAN OBAT TRADISIONAL

Jalan Lawu No.11 Tawangmangu, Karanganyar, Jawa Tengah 57792

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Laman b2p2toot.litbang.kemkes.go.id Surat Elektronik b2p2toot@litbang.kemkes.go.id

Nomor : KM.04.02/2/1492/2022

19 Agustus 2022

Hal : Keterangan Determinasi

Yth. Dekan Fakultas Farmasi Universitas Setia Budi
Jalan Letjend. Sutoyo, Solo 57127

Merujuk surat Saudara nomor: 850/H6-04/02.08.2022 tanggal 2 Agustus 2022 hal permohonan determinasi, dengan ini kami sampaikan bahwa hasil determinasi sampel tanaman sebagai berikut:

Nama Pemohon : Siti Wulandari
Nama Sampel : Pegagan
Sampel : Tanaman Segar
Spesies : *Centella asiatica* (L.) Urb.
Sinonim : *Hydrocotyle asiatica* L.
Familia : Apiaceae
Penanggung Jawab : Nina Kurnianingrum, S.Si.

Hasil determinasi tersebut hanya mencakup sampel tanaman yang telah dikirimkan ke dan/atau berasal dari B2P2TOOT.

Atas perhatian Saudara, kami sampaikan terima kasih.

Kepala Balai Besar Penelitian
dan Pengembangan Tanaman Obat
dan Obat Tradisional
Tawangmangu



Akhmad Saikhu, S.K.M., M.Sc.PH.

Lampiran 2. Hasil presentase bobot serbuk dan rendemen herba pegagan

Bobot basah (g)	Bobot kering (g)	Rendemen (%) (b/b)
5000	500	10

Perhitungan rendemen:

$$\begin{aligned}
 \text{Rendemen (\%b/b)} &= \frac{\text{berat kering (g)}}{\text{berat basah (g)}} \times 100\% \\
 &= \frac{500}{5000} \times 100\% \\
 &= 10 \%
 \end{aligned}$$

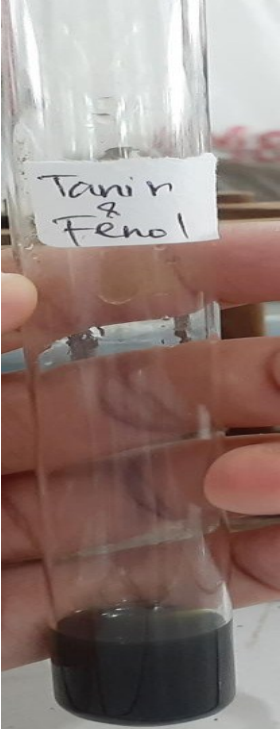
Lampiran 3. Hasil presentase rendemen ekstrak herba pegagan

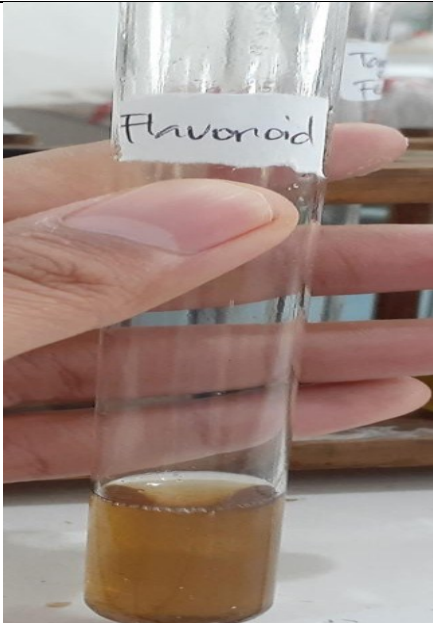
Bahan (g)	Ekstrak kental (g)	Rendemen (%) (b/b)
500	108	21,6

Perhitungan rendemen:

$$\begin{aligned}
 \text{Rendemen (\%b/b)} &= \frac{\text{berat kering (g)}}{\text{berat basah (g)}} \times 100\% \\
 &= \frac{108}{500} \times 100\% \\
 &= 21,6\%
 \end{aligned}$$

Lampiran 4. Hasil identifikasi serbuk dan ekstrak herba pegagan

No	Identifikasi senyawa	Gambar	Keterangan
1	Tanin		(+) hijau kehitaman
2	Saponin		(+) Terdapat buih

3	Flavonoid		(+) Jingga kekuningan
4	Tripenoid		(+) Warna merah

Lampiran 5. Hasil pengeringan susut pengeringan serbuk dan ekstrak herba pegagan

Bentuk simplisia	No Replikasi	Perhitungan (%)
Serbuk	1	$\text{Replikasi 1} = \frac{2 - 1,86}{2} \times 100\% = 7\%$
	2	$\text{Replikasi 2} = \frac{2 - 1,87}{2} \times 100\% = 6,5\%$
	3	$\text{Replikasi 3} = \frac{2 - 1,87}{2} \times 100\% = 6,5\%$
Ekstrak	1	$\text{Replikasi 1} = \frac{2 - 1,81}{2} \times 100\% = 9,5\%$
	2	$\text{Replikasi 2} = \frac{2 - 1,83}{2} \times 100\% = 8,5\%$
	3	$\text{Replikasi 3} = \frac{2 - 1,86}{2} \times 100\% = 7\%$

Lampiran 6. Foto alat yang digunakan



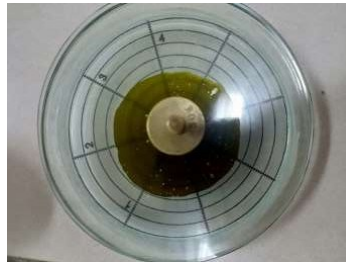
Ekstrak herba pegagan



Maserasi



Daya Sebar



Daya Sebar



Daya lekat



Daya lekat



Alat pengering



Evaporator

Lampiran 7. Hasil pengukuran ph

Formula	Minggu ke-0			Rata-rata	SD
	Replikasi 1	Replikasi 2	Replikasi 3		
F0	4.57	4.59	4.62	4.59	0.03
F1	4.69	4.71	4.72	4.71	0.02
F2	4.63	4.68	4.68	4.66	0.03
F3	4.48	4.51	4.53	4.51	0.03
Formula	Minggu ke-4			Rata-rata	SD
	Replikasi 1	Replikasi 2	Replikasi 3		
F0	4.47	4.53	4.56	4.52	0.045826
F1	4.59	4.63	4.65	4.62	0.03
F2	4.49	4.51	4.54	4.51	0.03
F3	4.41	4.5	4.51	4.47	0.06

Lampiran 8. Hasil pengaatan viskositas

Formula	Minggu ke-0			Rata-rata	SD
	Replikasi 1	Replikasi 2	Replikasi 3		
F0	7500	7550	7560	7536.667	32.1455
F1	9060	9080	9100	9080	20
F2	10380	10400	10410	10396.67	15.27525
F3	8960	8980	8990	8976.667	15.27525
Formula	Minggu ke-4			Rata-rata	SD
	Replikasi 1	Replikasi 2	Replikasi 3		
F0	7410	7504	7480	7446.667	35.11885
F1	9000	9010	8890	8966.77	66.8328
F2	10300	10310	10330	10313.33	1527525
F3	8860	8870	8898	8876.00	19.70

Lampiran 9. Hasil daya lekat

Formula	Minggu ke-0			Rata-rata	SD
	Replikasi 1	Replikasi 2	Replikasi 3		
F0	5.36	5.38	5.4	5.38	0.02
F1	5.9	5.92	5.93	5.916667	0.015275
F2	7.87	7.89	7.9	7.886667	0.015275
F3	8.61	8.63	8.65	8.63	0.02
Formula	Minggu ke-4			Rata-rata	SD
	Replikasi 1	Replikasi 2	Replikasi 3		
F0	5.22	5.32	5.34	5.29	0.06
F1	5.8	5.86	5.91	5.86	0.06
F2	7.81	7.85	7.8	7.82	0.03
F3	8.56	8.58	8.6	8.58	0.02

Lampiran 10. Kesembuhan luka bakar



Hari ke 1



Hari ke 7



Hari ke 14

Case Processing Summary

	kelompok	Cases					
		Valid		Missing		Total	
		N	Percent	N	Percent	N	Percent
Kesesubhan LukaBakar	kontrol positif	7	100.0%	0	0.0%	7	100.0%
	kontrol negatif	7	100.0%	0	0.0%	7	100.0%
	formula 1	7	100.0%	0	0.0%	7	100.0%
	formula 2	7	100.0%	0	0.0%	7	100.0%
	formula 3	7	100.0%	0	0.0%	7	100.0%

Descriptives

	Kelompok		Statistic	Std. Error
KesesubhanLukaBakar	kontrol positif	Mean	98.5086	.43814
		95% Confidence Lower Bound	97.4365	
		Interval for Mean Upper Bound	99.5807	
		5% Trimmed Mean	98.5001	
		Median	98.0000	
		Variance	1.344	
		Std. Deviation	1.15922	
		Minimum	97.17	
		Maximum	100.00	
		Range	2.83	
		Interquartile Range	2.41	
		Skewness	.464	.794
		Kurtosis	-1.736	
		Mean	68.4243	
	kontrol negatif	95% Confidence Lower Bound	50.0526	7.50812
		Interval for Mean Upper Bound	86.7960	
		5% Trimmed Mean	68.1153	
		Median	66.0900	
		Variance	394.603	

formula 1	Std. Deviation		19.86462	
	Minimum		42.41	
	Maximum		100.00	
	Range		57.59	
	Interquartile Range		33.15	
	Skewness		.563	.794
	Kurtosis		-.421	1.587
	Mean		77.0057	6.26093
	95% Confidence	Lower Bound	61.6858	
	Interval for Mean	Upper Bound	92.3257	
	5% Trimmed Mean		76.8986	
	Median		77.3100	
	Variance		274.395	
	Std. Deviation		16.56487	
	Minimum		55.94	
	Maximum		100.00	
formula 2	Range		44.06	
	Interquartile Range		33.68	
	Skewness		.220	.794
	Kurtosis		-1.370	1.587
	Mean		88.8029	3.55302
	95% Confidence	Lower Bound	80.1089	
	Interval for Mean	Upper Bound	97.4968	
	5% Trimmed Mean		89.0532	
	Median		90.7500	
	Variance		88.368	
	Std. Deviation		9.40041	
	Minimum		73.10	
	Maximum		100.00	
	Range		26.90	
	Interquartile Range		16.60	
	Skewness		-.543	.794
	Kurtosis		-.174	1.587
formula 3	Mean		98.4429	.45206
			97.3367	
	95% Confidence	Lower Bound		
	Interval for Mean	Upper Bound	99.5490	
	5% Trimmed Mean		98.4415	
	Median		98.5200	
	Variance		1.430	
	Std. Deviation		1.19603	
	Minimum		96.91	
	Maximum		100.00	
	Range		3.09	
	Interquartile Range		2.35	
	Skewness		.047	.794
	Kurtosis		-1.783	1.587

Tests of Normality

	kelompok	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
KesesubhanLukaBakar	kontrol positif	.241	7	.200 [*]	.878	7	.216
	kontrol negatif	.216	7	.200 [*]	.949	7	.722
	formula 1	.149	7	.200 [*]	.951	7	.741
	formula 2	.153	7	.200 [*]	.957	7	.791
	formula 3	.183	7	.200 [*]	.938	7	.624

*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

ONE WAY ANOVA**Descriptives**

KesesubhanLukaBakar

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
kontrol positif	7	98.5086	1.15922	.43814	97.4365	99.5807	97.17	100.00
kontrol negatif	7	68.4243	19.86462	7.50812	50.0526	86.7960	42.41	100.00
formula 1	7	77.0057	16.56487	6.26093	61.6858	92.3257	55.94	100.00
formula 2	7	88.8029	9.40041	3.55302	80.1089	97.4968	73.10	100.00
formula 3	7	98.4429	1.19603	.45206	97.3367	99.5490	96.91	100.00
Total	35	86.2369	16.73453	2.82865	80.4883	91.9854	42.41	100.00

Test of Homogeneity of Variances

KesesubhanLukaBakar

Levene Statistic	df1	df2	Sig.
6.161	4	30	.001

ANOVA

KesesubhanLukaBakar

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	4960.672	4	1240.168	8.157	.000
Within Groups	4560.842	30	152.028		
Total	9521.514	34			

POST HOC TUCKEY

Multiple Comparisons

Dependent Variable: KesenubhanLukaBakar

Tukey HSD

(I) kelompok	(J) kelompok	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
kontrol positif	kontrol negatif	30.08429*	6.59064	.001	10.9674	49.2012
	formula 1	21.50286*	6.59064	.021	2.3860	40.6197
	formula 2	9.70571	6.59064	.587	-9.4112	28.8226
kontrol negatif	formula 3	.06571	6.59064	1.000	-19.0512	19.1826
	kontrol positif	-30.08429*	6.59064	.001	-49.2012	-10.9674
	formula 1	-8.58143	6.59064	.692	-27.6983	10.5354
formula 1	formula 2	-20.37857*	6.59064	.032	-39.4954	-1.2617
	formula 3	-30.01857*	6.59064	.001	-49.1354	-10.9017
	kontrol positif	-21.50286*	6.59064	.021	-40.6197	-2.3860
formula 2	kontrol negatif	8.58143	6.59064	.692	-10.5354	27.6983
	formula 3	-11.79714	6.59064	.398	-30.9140	7.3197
	kontrol positif	-21.43714*	6.59064	.022	-40.5540	-2.3203
formula 3	kontrol negatif	-9.70571	6.59064	.587	-28.8226	9.4112
	formula 1	20.37857*	6.59064	.032	1.2617	39.4954
	formula 2	11.79714	6.59064	.398	-7.3197	30.9140
formula 3	kontrol positif	-9.64000	6.59064	.594	-28.7569	9.4769
	formula 1	-.06571	6.59064	1.000	-19.1826	19.0512
	formula 2	30.01857*	6.59064	.001	10.9017	49.1354
formula 3	kontrol negatif	21.43714*	6.59064	.022	2.3203	40.5540
	formula 1	9.64000	6.59064	.594	-9.4769	28.7569
	formula 2	9.64000	6.59064	.594	-9.4769	28.7569

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

KesenubhanLukaBakar

Tukey HSD^a

kelompok	N	Subset for alpha = 0.05		
		1	2	3
kontrol negatif	7	68.4243		
formula 1	7	77.0057	77.0057	
formula 2	7		88.8029	88.8029
formula 3	7			98.4429
kontrol positif	7			98.5086
Sig.		.692	.398	.587

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 7.000.