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LAMPIRAN

Lampiran1. Hasil Determinasi Tanaman Kelor (*Moringa oleifera* L)



UPT-LABORATORIUM
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Nomor : 253/DET/UPT-LAB/23.06.2021
Hal : Hasil determinasi tumbuhan
Lamp. : -

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Universitas Setia Budi, Surakarta
Nama sampel : Kelor/ *Moringa oleifera* Lamk.

HASIL DETERMINASI TUMBUHAN

Klasifikasi
Kingdom : Plantae
Super Divisi : Spermatophyta
Divisi : Magnoliophyta
Kelas : Magnoliopsida
Ordo : Brassicales
Famili : Moringaceae
Genus : *Moringa*
Species : *Moringa oleifera* Lamk.

Hasil Determinasi menurut Steenis, C.G.G.J.V, Bloembergen, H, Eyma, P.J. 1992 :
1b – 2b – 3b – 4b – 6b – 7b – 9b – 10b – 11b – 12b – 13b – 15b. golongan 9. 197b – 208a –
209b – 210b – 211b – 214a. familia 55. Moringaceae. *Moringa oleifera* Lamk.

Deskripsi :

Habitus : Pohon bengkok, menggugurkan daun, tinggi 3 – 10 m.
Akar : Sistem akar tunggang.

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- Batang : Batang berkayu, percabangan monopodial, ranting dengan tanda bekas daun yang besar.
- Daun : Daun tersebar, menyirip ganjil rangkap 2 – 4. Anak daun bertangkai, bulat telur terbalik, tepi rata, sisi bawah hijau pucat, panjang 1,6 – 2,1 cm, tulang daun menyirip.
- Bunga : Bunga malai, panjang 11,4 – 14,1 cm. Piala kelopak hijau, taju kelopak melengkung membalik, putih, panjang 1 cm. Daun mahkota putih kuning, yang terdepan terbesar, panjang lk 1,5 cm, yang lain membalik. Benang sari dan staminodia dengan ujung yang melengkung kembali.
- Buah : Buah kotak, menggantung, bersudut 3, panjang 33,2 – 46,5 cm. Katup tebal, di tengah ada bekas cetakan yang dalam berisi 1 baris biji.
- Biji : Biji bentuk bola, bersayap 3.

Kepala UPT-LAB
Universitas Setia Budi



Asik Gunawan, Amdk

Surakarta, 23 Juni 2021

Penanggung jawab
Determinasi Tumbuhan

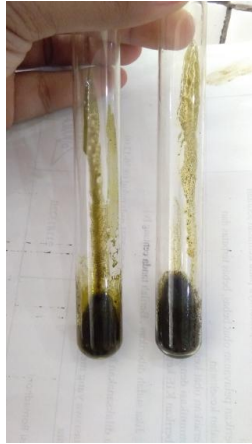
Dra. Dewi Sulistyawati, M.Sc.

Lampiran 2. Foto Ekstrak Daun Kelor (*Moringa oleifera* L)



Gambar 9. Ekstrak kental Daun Kelor (*Moringa oleifera* L)

Lampiran 3. Foto Hasil Uji Alkaloid Ekstrak Daun kelor (*Moringa oleifera* L)



Gambar 10. Hasil Uji Alkaloid

Lampiran 4. Foto Hasil Uji Flavonoid Ekstrak Daun kelor (*Moringa oleifera* L)



Gambar 11. Hasil Uji Flavonoid

Lampiran 5. Foto Hasil Uji Tanin Ekstrak Daun kelor (*Moringa oleifera* L)



Gambar 12. Hasil Uji Tanin

Lampiran 6. Foto Hasil Uji Saponin Ekstrak Daun kelor (*Moringa oleifera L*)



Gambar 13. Hasil Uji Saponin

Lampiran 7. Foto Hasil Uji Terpenoid Ekstrak Daun kelor (*Moringa oleifera L*)



Gambar 14. Hasil Uji Terpenoid

Lampiran 8. Foto Hasil Pembuatan Sediaan Lotion Ekstrak Daun kelor (*Moringa oleifera L*)

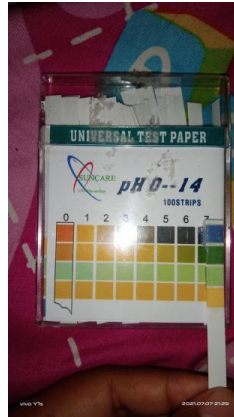


Gambar 15. Sediaan Lotion Ekstrak Daun Kelor (*Moringa oleifera L*)

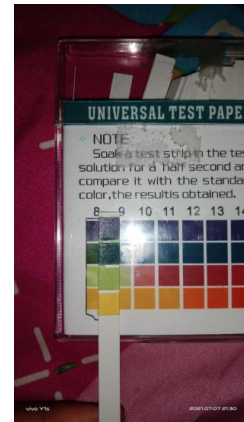
Lampiran 9. Foto Hasil Uji pH



Gambar 16. Uji pH F1



Gambar 17. Uji pH F2



Gambar 18. Uji pH F3

Lampiran 10. Foto Hasil Uji Homogenitas



Gambar 19. Uji Homogenitas F1



Gambar 20. Uji Homogenitas F2



Gambar 21. Uji Homogenitas F3

Lampiran 11. Foto Hasil Uji Daya Sebar



Gambar 22. Beban 50 g



Gambar 23. Beban 100 g



Gambar 24. Beban 200 g



Gambar 25. Beban 500 g

Lampiran 12. Foto Hasil Uji Viskositas



Gambar 26. Uji Viskositas F1



Gambar 27. Uji Viskositas F2



Gambar 28. Uji Viskositas F3

Lampiran 13. Hasil Analisis Data Uji pH dengan metode ANOVA *One Way***Descriptives**

Hasil Uji pH

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
F 1	3	6.533	.1528	.0882	6.154	6.913	6.4	6.7
F 2	3	7.200	.3000	.1732	6.455	7.945	6.9	7.5
F 3	3	7.833	.2082	.1202	7.316	8.350	7.6	8.0
Total	9	7.189	.5968	.1989	6.730	7.648	6.4	8.0

Tests of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
Hasil Uji pH	Based on Mean	.425	2	6	.672
	Based on Median	.368	2	6	.706
	Based on Median and with adjusted df	.368	2	5.194	.709
	Based on trimmed mean	.423	2	6	.673

ANOVA

Hasil Uji pH

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	2.536	2	1.268	24.277	.001
Within Groups	.313	6	.052		
Total	2.849	8			

Multiple Comparisons

Dependent Variable: Hasil Uji pH

Tukey HSD

(I) pH	(J) pH	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
F 1	F 2	-.6667*	.1866	.027	-1.239	-.094
	F 3	-1.3000*	.1866	.001	-1.873	-.727
F 2	F 1	.6667*	.1866	.027	.094	1.239

	F 3		-.6333*	.1866	.034	-1.206	-.061
F 3	F 1		1.3000*	.1866	.001	.727	1.873
	F 2		.6333*	.1866	.034	.061	1.206

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

Hasil Uji pH

Tukey HSD^a

pH	N	Subset for alpha = 0.05		
		1	2	3
F 1	3	6.533		
F 2	3		7.200	
F 3	3			7.833
Sig.		1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

Lampiran 14. Hasil Analisis Data Uji Daya Sebar dengan metode ANOVA *One Way*

Descriptives

Hasil Uji Daya Sebar

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
F1	12	6.8500	.55678	.16073	6.4962	7.2038	6.00	7.70
F2	12	6.3750	.55288	.15960	6.0237	6.7263	5.50	7.20
F3	12	5.9167	.55895	.16135	5.5615	6.2718	5.00	6.80
Total	36	6.3806	.66411	.11068	6.1559	6.6053	5.00	7.70

Tests of Homogeneity of Variances

		Levene	df1	df2	Sig.
		Statistic			
Hasil Uji Daya Sebar	Based on Mean	.023	2	33	.978
	Based on Median	.023	2	33	.978
	Based on Median and with adjusted df	.023	2	32.582	.978
	Based on trimmed mean	.023	2	33	.978

ANOVA

Hasil Uji Daya Sebar

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	5.227	2	2.614	8.448	.001
Within Groups	10.209	33	.309		
Total	15.436	35			

Multiple Comparisons

Dependent Variable: Hasil Uji Daya Sebar

Tukey HSD

(I) Daya Sebar	(J) Daya Sebar	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
F1	F2	.47500	.22707	.107	-.0822	1.0322
	F3	.93333*	.22707	<,001	.3761	1.4905
F2	F1	-.47500	.22707	.107	-1.0322	.0822
	F3	.45833	.22707	.124	-.0989	1.0155
F3	F1	-.93333*	.22707	<,001	-1.4905	-.3761
	F2	-.45833	.22707	.124	-1.0155	.0989

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

Hasil Uji Daya Sebar

Tukey HSD^a

Daya Sebar	N	Subset for alpha = 0.05	
		1	2
F3	12	5.9167	
F2	12	6.3750	6.3750
F1	12		6.8500
Sig.		.124	.107

a. Uses Harmonic Mean Sample Size = 12.000.

Lampiran 15. Hasil Analisis Data Uji Viskositas dengan metode ANOVA *One Way*

Descriptives

Hasil Uji Viskositas

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
F1	3	5.00	1.000	.577	2.52	7.48	4	6
F2	3	8.67	.577	.333	7.23	10.10	8	9
F3	3	12.33	1.528	.882	8.54	16.13	11	14
Total	9	8.67	3.317	1.106	6.12	11.22	4	14

Tests of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
Hasil Uji Viskositas	Based on Mean	1.217	2	6	.360
	Based on Median	.600	2	6	.579
	Based on Median and with adjusted df	.600	2	4.545	.587
	Based on trimmed mean	1.172	2	6	.372

ANOVA

Hasil Uji Viskositas

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	80.667	2	40.333	33.000	<,001
Within Groups	7.333	6	1.222		
Total	88.000	8			

Multiple Comparisons

Dependent Variable: Hasil Uji Viskositas

Tukey HSD

(I) Uji Viskositas	(J) Uji Viskositas	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound

F1	F2	-3.667*	.903	.016	-6.44	-.90
	F3	-7.333*	.903	<,001	-10.10	-4.56
F2	F1	3.667*	.903	.016	.90	6.44
	F3	-3.667*	.903	.016	-6.44	-.90
F3	F1	7.333*	.903	<,001	4.56	10.10
	F2	3.667*	.903	.016	.90	6.44

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

Hasil Uji Viskositas

Tukey HSD^a

Uji Viskositas	N	Subset for alpha = 0.05		
		1	2	3
F1	3	5.00		
F2	3		8.67	
F3	3			12.33
Sig.		1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.