7. LAMPIRAN

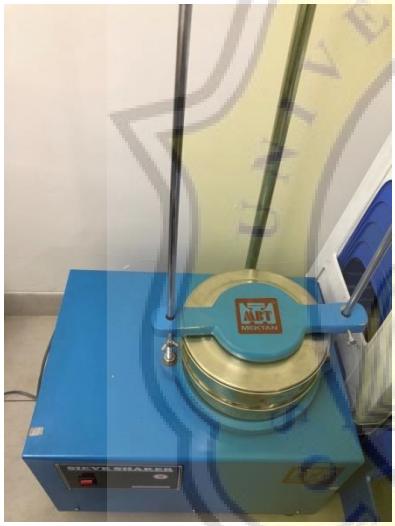
Gambar 7. 1. Penimbangan Serbuk Sambiloto

Gambar 7. 2. Ekstraksi Sambiloto dengan Metode *Ultrasound*

Gambar 7. 3. Ekstrak Sambiloto Disaring

Gambar 7. 4. Proses Kristalisasi menggunakan Kristalisator

Gambar 7. 5. Penghalusan Serbuk Hasil Kristalisasi



Gambar 7. 6. Pengayakan Serbuk Menggunakan *Sieve Shaker*

Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Laju kristalisasi	.171	12	.200*	.875	12	.075
Kadar_Air	.198	12	.200*	.913	12	.233
Kadar_Abu	.198	12	.200*	.915	12	.244
Wet_Ability	.198	12	.200*	.870	12	.065
Kelarutan	.230	12	.079	.866	12	.059
pH	.200	12	.200*	.866	12	.059
Bulk_Density	.182	12	.200*	.924	12	.321
Aktivitas_Antioksidan	.190	12	.200*	.881	12	.091
Warna_L	.176	12	.200*	.885	12	.101
Warna_a	.239	12	.057	.865	12	.057
Warna_b	.212	12	.143	.869	12	.064
Rendemen	.188	12	.200*	.864	12	.054

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

a. Lilliefors Significance Correction

Gambar 7. 7. Uji Normalitas Data Sampel pada Setiap Konsentrasi *Whey Protein* yang digunakan

Test of Homogeneity of Variances

	Levene Statistic	df1	df2	Sig.
Laju kristalisasi	2.361	3	8	.147
Kadar_Air	4.017	3	8	.051
Kadar_Abu	2.588	3	8	.126
Wet_Ability	2.044	3	8	.186
Kelarutan	2.306	3	8	.153
pH	3.966	3	8	.053
Bulk_Density	2.528	3	8	.131
Aktivitas_Antioksidan	2.320	3	8	.152
Warna_L	3.028	3	8	.093
Warna_a	3.343	3	8	.077
Warna_b	2.378	3	8	.146
Rendemen	.971	3	8	.453

Gambar 7. 8. Uji Homogenitas Data Sampel pada Setiap Konsentrasi *Whey Protein* yang digunakan

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
Laju kristalisasi	Between Groups	3312.168	3	1104.056	3310.099	.000
	Within Groups	2.668	8	.334		
	Total	3314.836	11			
Kadar_Air	Between Groups	.743	3	.248	47.870	.000
	Within Groups	.041	8	.005		
	Total	.785	11			
Kadar_Abu	Between Groups	.000	3	.000	4.512	.039
	Within Groups	.000	8	.000		
	Total	.001	11			
Wet_Ability	Between Groups	243.398	3	81.133	3838.213	.000
	Within Groups	.169	8	.021		
	Total	243.567	11			
Kelarutan	Between Groups	9731.105	3	3243.702	1223.921	.000
	Within Groups	21.202	8	2.650		
	Total	9752.308	11			
pH	Between Groups	13.790	3	4.597	4178.694	.000
	Within Groups	.009	8	.001		
	Total	13.798	11			
Bulk_Density	Between Groups	.002	3	.001	4.330	.043
	Within Groups	.001	8	.000		
	Total	.003	11			
Aktivitas_Antioksidan	Between Groups	10331.073	3	3443.691	6305.009	.000
	Within Groups	4.369	8	.546		
	Total	10335.442	11			
Warna_L	Between Groups	1695.436	3	565.145	1776.547	.000
	Within Groups	2.545	8	.318		
	Total	1697.981	11			
Warna_a	Between Groups	47.107	3	15.702	1132.438	.000
	Within Groups	.111	8	.014		
	Total	47.218	11			
Warna_b	Between Groups	36.753	3	12.251	2279.245	.000
	Within Groups	.043	8	.005		
	Total	36.796	11			
Rendemen	Between Groups	129.773	3	43.258	5654.591	.000
	Within Groups	.061	8	.008		
	Total	129.834	11			

Gambar 7. 9. Uji One Way – ANOVA Data Sampel pada Setiap Konsentrasi *Whey Protein* yang digunakan

Laju kristalisasi

Duncan[a]

Konsentrasi whey	N	Subset for alpha = .05			
		1	2	3	4
.00	3	65.2200			
37.50	3		77.6200		
75.00	3			89.2233	
112.50	3				110.3367
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.

Gambar 7. 10. Uji Duncan Data Laju Kristalisasi Antar Konsentrasi *Whey Protein*

Kadar_Air

Duncan[a]

Konsentrasi whey	N	Subset for alpha = .05		
		1	2	3
.00	3	.3633		
37.50	3		.7120	
75.00	3			.8922
112.50	3			1.0267
Sig.		1.000	1.000	.051

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

Gambar 7. 11. Uji Duncan Data Kadar Air Antar Konsentrasi *Whey Protein*

Kadar_Abu

Duncan[a]

Konsentrasi whey	N	Subset for alpha = .05	
		1	2
112.50	3	.9946	
75.00	3	1.0004	1.0004
.00	3	1.0043	1.0043
37.50	3		1.0100
Sig.		.062	.067

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

Gambar 7. 12. Uji Duncan Data Kadar Abu Antar Konsentrasi *Whey Protein*

Wet_Ability

Duncan[a]

Konsentrasi whey	N	Subset for alpha = .05			
		1	2	3	4
.00	3	5.6556			
37.50	3		8.6656		
75.00	3			13.6056	
112.50	3				17.3844
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.

Gambar 7. 13. Uji Duncan Data *Wettability* Antar Konsentrasi *Whey Protein*

Kelarutan

Duncan[a]

Konsentrasi whey	N	Subset for alpha = .05			
		1	2	3	4
.00	3	40.1233			
37.50	3		54.6244		
75.00	3			88.5376	
112.50	3				112.8500
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.

Gambar 7. 14. Uji Duncan Data Kelarutan Antar Konsentrasi *Whey Protein*

pH

Duncan[a]

Konsentrasi whey	N	Subset for alpha = .05			
		1	2	3	4
112.50	3	5.3300			
75.00	3		5.9533		
37.50	3			6.9333	
.00	3				8.1667
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.

Gambar 7. 15. Uji Duncan Data pH Antar Konsentrasi *Whey Protein*

Bulk_Density

Duncan[a]

Konsentrasi whey	N	Subset for alpha = .05	
		1	2
112.50	3	.7161	
75.00	3	.7191	
37.50	3	.7218	
.00	3		.7453
Sig.		.566	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

Gambar 7. 16. Uji Duncan Data *Bulk Density* Antar Konsentrasi *Whey Protein*

Aktivitas_Antioksidan

Duncan[a]

Konsentrasi whey	N	Subset for alpha = .05			
		1	2	3	4
.00	3	8.4133			
37.50	3		35.9167		
75.00	3			64.1267	
112.50	3				86.3733
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.

Gambar 7. 17. Uji Duncan Data Aktivitas Antioksidan Antar Konsentrasi *Whey Protein*

Warna_L

Duncan[a]

Konsentrasi whey	N	Subset for alpha = .05			
		1	2	3	4
.00	3	16.3030			
37.50	3		30.7677		
75.00	3			39.9553	
112.50	3				48.3577
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.

Gambar 7. 18. Uji Duncan Data Warna (L) Antar Konsentrasi *Whey Protein*

Warna_a

Duncan[a]

Konsentrasi whey	N	Subset for alpha = .05			
		1	2	3	4
37.50	3	.8252			
75.00	3		2.5266		
112.50	3			3.2389	
.00	3				6.3000
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.

Gambar 7. 19. Uji Duncan Data Warna (a*) Antar Konsentrasi *Whey Protein*

Warna_b

Duncan[a]

Konsentrasi whey	N	Subset for alpha = .05			
		1	2	3	4
.00	3	4.5133			
37.50	3		5.5633		
75.00	3			7.5933	
112.50	3				9.0200
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.

Gambar 7. 20. Uji Duncan Data Warna (b*) Antar Konsentrasi *Whey Protein*

Rendemen

Duncan[a]

Konsentrasi whey	N	Subset for alpha = .05			
		1	2	3	4
112.50	3	50.3433			
75.00	3		54.8433		
37.50	3			57.1000	
.00	3				59.2067
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.

Gambar 7. 21. Uji Duncan Data Rendemen Antar Konsentrasi *Whey Protein*

Gambar 7. 22. Hasil Perlakuan Kontrol

Gambar 7. 23. Hasil Perlakuan dengan Penambahan *Whey* 25%

Gambar 7. 24. Hasil Perlakuan dengan Penambahan *Whey* 50%

Gambar 7. 25. Hasil Perlakuan dengan Penambahan *Whey* 75%

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