

7. LAMPIRAN

Lampiran 1. Perhitungan Isolat Protein Daun Yakon

❖ Hasil isolasi protein daun yakon

- Berat sampel awal

Ulangan 1 = 0,8 gram

Ulangan 2 = 0,8 gram

Ulangan 3 = 0,8 gram

Rata-rata berat sampel awal = $(0,8+0,8+0,8)/3=0,8$ gram

- Berat isolat protein

Ulangan 1 = $0,023 + 0,029 + 0,013 + 0,017 = 0,082$ gram

Ulangan 2 = $0,025 + 0,022 + 0,019 + 0,021 = 0,087$ gram

Ulangan 3 = $0,025 + 0,019 + 0,023 + 0,017 = 0,084$ gram

Rata-rata berat isolat protein = $(0,082+0,087+0,084)/3=0,084$ gram

- Efisiensi isolat protein kering

Ulangan 1 = $(0,082/0,8) \times 100 \% = 10,25\%$

Ulangan 2 = $(0,087/0,8) \times 100 \% = 10,875\%$

Ulangan 3 = $(0,084/0,8) \times 100 \% = 10,5\%$

Rata-rata efisiensi isolat protein = $(10,25+10,875+10,5)/3= 10,542 \%$

❖ Perhitungan penambahan protein daun yakon

Penambahan isolat protein menggunakan asumsi berat badan maksimal tikus pada saat pemilihan adalah 150 gram. Setiap hari masing-masing tikus akan diberi perlakuan dengan disonde sorbet pisang sebanyak 3,5ml. Selain itu asumsi 150 gram buah adalah 150ml dan penambahan air dalam sorbet adalah 50 ml, sehingga pembuatan sorbet akan menghasilkan 200ml sorbet pisang.

- Penambahan isolat protein daun yakon 25 mg/kg BB (perlakuan SP+IP25Y)

$$\text{Isolat yang ditambah} = \frac{25\text{mg}}{1000\text{ gram}} \times 150\text{gram} \times \frac{200\text{ml}}{3,5\text{ml}} = 0,214\text{gram}$$

- Penambahan isolat protein daun yakon 50 mg/kg BB (perlakuan SP+IP50Y)

$$\text{Isolat yang ditambah} = \frac{50\text{mg}}{1000\text{ gram}} \times 150\text{gram} \times \frac{200\text{ml}}{3,5\text{ml}} = 0,429\text{gram}$$

Lampiran 2. Perhitungan analisis proksimat sorbet pisang

Analisis proksimat yang dilakukan adalah pengukuran kadar air, kadar abu, kadar lemak, kadar protein, dan kadar karbohidrat dengan pengujian sebanyak 2 batch percobaan dengan 3 kali ulagan.

❖ Sorbet Pisang (SP)

○ Kadar air

$$\frac{38,201-21,784}{20,003} \times 100\% = 82,07\%$$

$$\frac{46,209-29,857}{20,018} \times 100\% = 81,69\%$$

$$\frac{46,348-29,902}{20,029} \times 100\% = 82,11\%$$

$$\frac{66,378-46,890}{25,045} \times 100\% = 77,81\%$$

$$\frac{63,39-43,914}{25,074} \times 100\% = 77,55\%$$

$$\frac{67,463-47,943}{25,055} \times 100\% = 77,91\%$$

$$\text{Rata-rata kadar air} = \frac{82,07\%+81,69\%+82,11\%+77,81\%+77,55\%+77,91\%}{6} = 80,256\%$$

○ Kadar abu

$$\frac{21,089-21,069}{0,508} \times 100\% = 0,04\% \rightarrow \frac{100\%-82,07\%}{100\%} \times 0,04\% = 0,007\%$$

$$\frac{22,239-22,221}{0,508} \times 100\% = 0,04\% \rightarrow \frac{100\%-81,69\%}{100\%} \times 0,04\% = 0,006\%$$

$$\frac{22,529-22,533}{0,508} \times 100\% = 0,05\% \rightarrow \frac{100\%-82,11\%}{100\%} \times 0,05\% = 0,009\%$$

$$\frac{26,011-25,958}{0,512} \times 100\% = 0,10\% \rightarrow \frac{100\%-77,81\%}{100\%} \times 0,10\% = 0,022\%$$

$$\frac{26,142-26,089}{0,504} \times 100\% = 0,11\% \rightarrow \frac{100\%-77,55\%}{100\%} \times 0,11\% = 0,023\%$$

$$\frac{21,247-21,192}{0,502} \times 100\% = 0,11\% \rightarrow \frac{100\%-77,91\%}{100\%} \times 0,11\% = 0,024\%$$

$$\text{Rata-rata kadar abu} = \frac{0,07\%+0,006\%+0,009\%+0,022\%+0,023\%+0,024\%}{6} = 0,796\%$$

○ Kadar lemak

$$\frac{22,256-22,255}{0,5} \times 100\% = 0,2\% \rightarrow \frac{100\%-82,07\%}{100\%} \times 0,2\% = 0,03\%$$

$$\frac{22,175-22,173}{0,5} \times 100\% = 0,4\% \rightarrow \frac{100\%-81,69\%}{100\%} \times 0,4\% = 0,07\%$$

$$\frac{20,989-20,958}{0,5} \times 100\% = 0,8\% \rightarrow \frac{100\%-82,11\%}{100\%} \times 0,8\% = 0,01\%$$

$$\frac{44,912-44,831}{0,5} \times 100\% = 0,16\% \rightarrow \frac{100\%-77,81\%}{100\%} \times 0,16\% = 0,03\%$$

$$\frac{41,133-41,058}{0,5} \times 100\% = 0,15\% \rightarrow \frac{100\%-77,55\%}{100\%} \times 0,15\% = 0,03\%$$

$$\frac{42,596-42,517}{0,5} \times 100\% = 0,15\% \rightarrow \frac{100\%-77,91\%}{100\%} \times 0,15\% = 0,03\%$$

$$\text{Rata-rata kadar lemak} = \frac{0,03\%+0,07\%+0,01\%+0,03\%+0,03\%+0,03\%}{6} = 0,085\%$$

○ Kadar protein

$$\%N = \frac{1,8-0,2}{0,5 \times 1000} \times 0,1 \times 14,007 \times 100\% = 0,504\%$$

$$\%P = 0,504\% \times 6,25 = 3,151\% \rightarrow \frac{100\%-82,072\%}{100\%} \times 3,151\% = 0,564\%$$

$$\%N = \frac{2,2-0,2}{0,5 \times 1000} \times 0,1 \times 14,007 \times 100\% = 0,616\%$$

$$\%P = 0,616\% \times 6,25 = 3,851\% \rightarrow \frac{100\%-81,69\%}{100\%} \times 3,851\% = 0,705\%$$

$$\%N = \frac{2,8-0,2}{0,5 \times 1000} \times 0,1 \times 14,007 \times 100\% = 0,784\%$$

$$\%P = 0,784\% \times 6,25 = 4,902\% \rightarrow \frac{100\%-82,11\%}{100\%} \times 4,902\% = 0,877\%$$

$$\%N = \frac{1,9-0,2}{0,5 \times 1000} \times 0,1 \times 14,007 \times 100\% = 1,064\%$$

$$\%P = 1,064\% \times 6,25 = 6,653\% \rightarrow \frac{100\%-77,811\%}{100\%} \times 6,653\% = 1,476\%$$

$$\%N = \frac{2,1-0,2}{0,5 \times 1000} \times 0,1 \times 14,007 \times 100\% = 1,176\%$$

$$\%P = 1,176\% \times 6,25 = 7,353\% \rightarrow \frac{100\%-77,550\%}{100\%} \times 7,353\% = 1,650\%$$

$$\%N = \frac{2,2-0,2}{0,5 \times 1000} \times 0,1 \times 14,007 \times 100\% = 1,232\%$$

$$\%P = 1,232\% \times 6,25 = 7,703\% \rightarrow \frac{100\%-77,908\%}{100\%} \times 7,703\% = 1,701\%$$

$$\text{Rata-rata kadar protein} = \frac{0,564\%+0,705\%+0,877\%+1,476\%+1,650\%+1,701\%}{6} = 0,676\%$$

○ Kadar karbohidrat

$$\text{By difference} = 100\% - (82,07\% + 0,007\% + 0,0003\% + 0,056\%) = 17,35\%$$

$$\text{By difference} = 100\% - (81,69\% + 0,006\% + 0,0007\% + 0,705\%) = 17,60\%$$

$$\text{By difference} = 100\% - (82,11\% + 0,009\% + 0,001\% + 0,877\%) = 17\%$$

$$\text{By difference} = 100\% - (77,81\% + 0,22\% + 0,03\% + 1,476\%) = 20,65\%$$

$$\text{By difference} = 100\% - (77,55\% + 0,023\% + 0,03\% + 1,650\%) = 20,74\%$$

$$\text{By difference} = 100\% - (77,91\% + 0,024\% + 0,03\% + 1,701\%) = 20,33\%$$

$$\text{Rata-rata kadar karbohidrat} = \frac{17,35\% + 17,60\% + 17\% + 20,65\% + 20,74\% + 20,33\%}{6} = 18,187\%$$

❖ Sorbet Pisang+25 mg/kg BB isolat protein daun yakon (SP+IP25Y)

○ Kadar air

$$\frac{38,201 - 21,784}{20,003} \times 100\% = 82,07\%$$

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○ Kadar abu

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Lampiran 3. Output Tes SPSS Analisis Proksimat

Tests of Normality

sampel	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
kadar_air	sorbet pisang	,275	6	,175	6	,055
	sorbet pisang+25g/kg bb isolat protein daun yakon	,208	6	,200*	6	,267
	sorbet pisang+50g/kg bb isolat protein daun yakon	,159	6	,200*	6	,993
kadar_abu	sorbet pisang	,225	6	,200*	6	,428
	sorbet pisang+25g/kg bb isolat protein daun yakon	,208	6	,200*	6	,730
	sorbet pisang+50g/kg bb isolat protein daun yakon	,356	6	,017	6	,006
kadar_lemak	sorbet pisang	,162	6	,200*	6	,628
	sorbet pisang+25g/kg bb isolat protein daun yakon	,265	6	,200*	6	,237
	sorbet pisang+50g/kg bb isolat protein daun yakon	,323	6	,049	6	,146
kadar_protein	sorbet pisang	,204	6	,200*	6	,806
	sorbet pisang+25g/kg bb isolat protein daun yakon	,206	6	,200*	6	,207
	sorbet pisang+50g/kg bb isolat protein daun yakon	,274	6	,179	6	,265
kadar_karbohidrat	sorbet pisang	,250	6	,200*	6	,129
	sorbet pisang+25g/kg bb isolat protein daun yakon	,193	6	,200*	6	,470
	sorbet pisang+50g/kg bb isolat protein daun yakon	,206	6	,200*	6	,622

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

a. Lilliefors Significance Correction

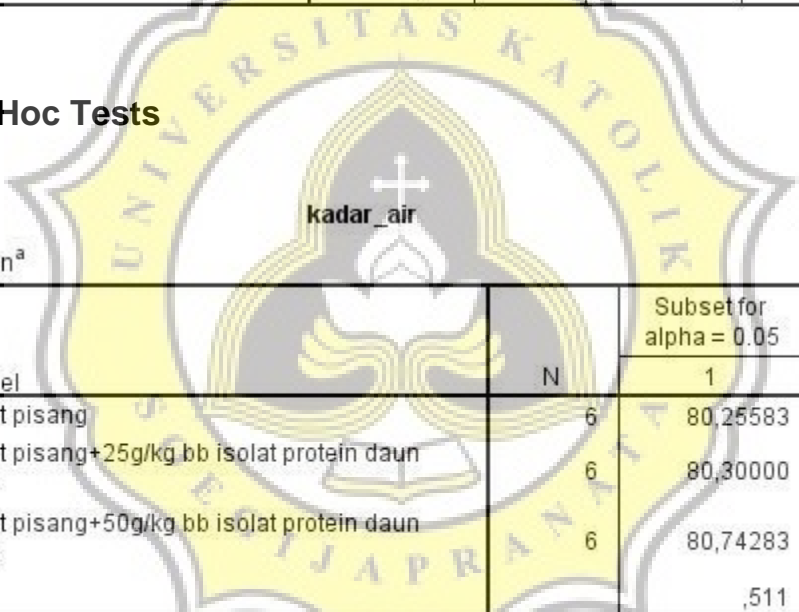
Test of Homogeneity of Variances

	Levene Statistic	df1	df2	Sig.
kadar_air	30,649	2	15	,000
kadar_abu	,845	2	15	,449
kadar_lemak	,751	2	15	,489
kadar_protein	1,941	2	15	,178
kadar_karbohidrat	36,499	2	15	,000

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
kadar_air	Between Groups	,870	2	,435	,309	,739
	Within Groups	21,131	15	1,409		
	Total	22,002	17			
kadar_abu	Between Groups	,082	2	,041	,761	,484
	Within Groups	,810	15	,054		
	Total	,893	17			
kadar lemak	Between Groups	,000	2	,000	,117	,891
	Within Groups	,025	15	,002		
	Total	,026	17			
kadar_protein	Between Groups	,123	2	,062	1,979	,173
	Within Groups	,467	15	,031		
	Total	,590	17			
kadar_karbohidrat	Between Groups	2,467	2	1,234	,928	,417
	Within Groups	19,929	15	1,329		
	Total	22,396	17			

Post Hoc Tests



kadar_air

Duncan^a

sampel	N	Subset for alpha = 0.05
sorbet pisang	6	80,25583
sorbet pisang+25g/kg bb isolat protein daun yakon	6	80,30000
sorbet pisang+50g/kg bb isolat protein daun yakon	6	80,74283
Sig.		,511

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6,000.

kadar_abuDuncan^a

sampel	N	Subset for alpha = 0.05
		1
sorbet pisang	6	,79567
sorbet pisang+25g/kg bb isolat protein daun yakon	6	,83400
sorbet pisang+50g/kg bb isolat protein daun yakon	6	,95433
Sig.		,280

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6,000.

kadar lemakDuncan^a

sampel	N	Subset for alpha = 0.05
		1
sorbet pisang	6	,08467
sorbet pisang+25g/kg bb isolat protein daun yakon	6	,09150
sorbet pisang+50g/kg bb isolat protein daun yakon	6	,09600
Sig.		,656

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6,000.

kadar proteinDuncan^a

sampel	N	Subset for alpha = 0.05
		1
sorbet pisang	6	,67640
sorbet pisang+25g/kg bb isolat protein daun yakon	6	,76667
sorbet pisang+50g/kg bb isolat protein daun yakon	6	,87863
Sig.		,078

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6,000.

kadar_karbohidratDuncan^a

sampel	N	Subset for alpha = 0.05
		1
sorbet pisang+50g/kg bb isolat protein daun yakon	6	17,32783
sorbet pisang+25g/kg bb isolat protein daun yakon	6	18,00773
sorbet pisang	6	18,18745
Sig.		,239

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6,000.



Lampiran 4. Data Perubahan Berat Badan dan Kadar Gula Darah Tikus Uji

- Tikus Pakan Standar

Berat Badan Tikus Pakan Standar

Hari	Berat Badan Tikus (gram)				
	Tikus 1	Tikus 2	Tikus 3	Tikus 4	Tikus 5
Sortasi	133	112	123	133	142
0	133	147	113	160	194
7	155	151	116	169	190
14	177	154	139	200	186
21	192	157	160	206	201
28	224	182	178	237	232
35	240	194	187	259	239

Keterangan : Hari sortasi merupakan hari dimana tikus diinduksi dengan STZ

Hari ke-0 adalah hari pertama perlakuan sonde dimulai,

Hari ke- 35 merupakan 7 hari setelah perlakuan sonde terakhir diberikan

Kadar Gula Darah Tikus Pakan Standar

Hari	Kadar Gula Darah Tikus (mg/dl)				
	Tikus 1	Tikus 2	Tikus 3	Tikus 4	Tikus 5
Sortasi	97	91	99	100	103
0	119	86	66	154	95
7	80	85	572	149	97
14	141	89	511	118	94
21	103	91	551	108	155
28	131	89	337	124	108
35	116	103	94	114	88

Keterangan : Hari sortasi merupakan hari dimana tikus diinduksi dengan STZ

Hari ke-0 adalah hari pertama perlakuan sonde dimulai,

Hari ke- 35 merupakan 7 hari setelah perlakuan sonde terakhir diberikan

- Tikus SP

Berat Badan Tikus SP

Hari	Berat Badan Tikus (gram)				
	Tikus 1	Tikus 2	Tikus 3	Tikus 4	Tikus 5
Sortasi	125	114	123	138	122
0	124	125	160	167	148
7	137	164	196	196	190
14	151	184	225	173	216
21	169	199	246	169	239
28	173	206	253	171	247
35	179	-	268	155	257

Keterangan : Hari sortasi merupakan hari dimana tikus diinduksi dengan STZ
 Hari ke-0 adalah hari pertama perlakuan sonde dimulai,
 Hari ke- 35 merupakan 7 hari setelah perlakuan sonde terakhir diberikan
 (-) : data tidak diperoleh karena tikus mati sebelum dapat dilakukan pengukuran

Kadar Gula Darah Tikus SP

Hari	Kadar Gula Darah Tikus (mg/dl)				
	Tikus 1	Tikus 2	Tikus 3	Tikus 4	Tikus 5
Sortasi	70	95	113	113	93
0	478	430	213	172	246
7	436	150	105	95	121
14	289	146	142	84	126
21	315	168	124	118	118
28	112	127	94	72	87
35	315	-	103	64	94

Keterangan : Hari sortasi merupakan hari dimana tikus diinduksi dengan STZ
 Hari ke-0 adalah hari pertama perlakuan sonde dimulai,
 Hari ke- 35 merupakan 7 hari setelah perlakuan sonde terakhir diberikan
 (-) : data tidak diperoleh karena tikus mati sebelum dapat dilakukan pengukuran

- Tikus SP+IP25Y

Berat Badan Tikus SP+IP25Y

Hari	Berat Badan Tikus (gram)				
	Tikus 1	Tikus 2	Tikus 3	Tikus 4	Tikus 5
Sortasi	117	113	106	140	113
0	144	123	110	168	142
7	187	163	155	225	168
14	204	170	182	230	190
21	219	188	200	231	198
28	222	196	211	235	213
35	242	212	237	250	227

Keterangan : Hari sortasi merupakan hari dimana tikus diinduksi dengan STZ

Hari ke-0 adalah hari pertama perlakuan sonde dimulai,

Hari ke- 35 merupakan 7 hari setelah perlakuan sonde terakhir diberikan

Kadar Gula Darah Tikus SP+IP25Y

Hari	Kadar Gula Darah Tikus (mg/dl)				
	Tikus 1	Tikus 2	Tikus 3	Tikus 4	Tikus 5
Sortasi	99	95	90	99	75
0	152	600	600	135	176
7	190	119	134	101	114
14	130	89	114	82	116
21	103	101	94	64	80
28	75	59	75	75	96
35	99	89	110	89	106

Keterangan : Hari sortasi merupakan hari dimana tikus diinduksi dengan STZ

Hari ke-0 adalah hari pertama perlakuan sonde dimulai,

Hari ke- 35 merupakan 7 hari setelah perlakuan sonde terakhir diberikan

- Tikus SP+IP50Y

Berat Badan Tikus SP+IP50Y

Hari	Berat Badan Tikus (gram)				
	Tikus 1	Tikus 2	Tikus 3	Tikus 4	Tikus 5
Sortasi	125	118	123	116	131
0	151	110	185	144	209
7	172	149	209	192	231
14	195	167	226	216	248
21	205	190	230	233	243
28	206	191	247	226	-
35	236	212	265	260	-

Keterangan : Hari sortasi merupakan hari dimana tikus diinduksi dengan STZ
 Hari ke-0 adalah hari pertama perlakuan sonde dimulai,
 Hari ke- 35 merupakan 7 hari setelah perlakuan sonde terakhir diberikan
 (-) : data tidak diperoleh karena tikus mati sebelum dapat dilakukan pengukuran

Kadar Gula Darah Tikus SP+IP50Y

Hari	Kadar Gula Darah Tikus (mg/dl)				
	Tikus 1	Tikus 2	Tikus 3	Tikus 4	Tikus 5
Sortasi	96	96	101	107	89
0	264	600	226	300	132
7	103	400	131	138	103
14	121	395	118	118	106
21	110	262	115	108	128
28	110	260	101	99	-
35	106	262	118	112	-

Keterangan : Hari sortasi merupakan hari dimana tikus diinduksi dengan STZ
 Hari ke-0 adalah hari pertama perlakuan sonde dimulai,
 Hari ke- 35 merupakan 7 hari setelah perlakuan sonde terakhir diberikan
 (-) : data tidak diperoleh karena tikus mati sebelum dapat dilakukan pengukuran

Lampiran 5. Persentase perubahan berat badan dan kadar gula darah

Perhitungan Persentase Perubahan Berat Badan dan Kadar Gula Darah

$$\text{Rumus \% Perubahan BB/KGD} = \frac{\text{akhir-awal}}{\text{awal}} \times 100\%$$

% Perubahan Berat Badan Tikus Pakan Standar

Tikus 1

$$\text{Hari ke-7} = \frac{155-133}{133} \times 100\% = 16,54\%$$

$$\text{Hari ke-14} = \frac{177-155}{155} \times 100\% = 14,19\%$$

$$\text{Hari ke-21} = \frac{192-177}{177} \times 100\% = 8,47\%$$

$$\text{Hari ke-28} = \frac{224-192}{192} \times 100\% = 16,67\%$$

$$\text{Hari ke-35} = \frac{240-224}{224} \times 100\% = 7,14\%$$

Tikus 4

$$\text{Hari ke-7} = \frac{169-160}{160} \times 100\% = 5,63\%$$

$$\text{Hari ke-14} = \frac{200-169}{169} \times 100\% = 18,34\%$$

$$\text{Hari ke-21} = \frac{206-200}{200} \times 100\% = 3,00\%$$

$$\text{Hari ke-28} = \frac{237-206}{206} \times 100\% = 15,05\%$$

$$\text{Hari ke-35} = \frac{259-237}{237} \times 100\% = 9,28\%$$

Tikus 2

$$\text{Hari ke-7} = \frac{151-147}{147} \times 100\% = 2,72\%$$

$$\text{Hari ke-14} = \frac{154-151}{151} \times 100\% = 1,99\%$$

$$\text{Hari ke-21} = \frac{157-154}{154} \times 100\% = 1,95\%$$

$$\text{Hari ke-28} = \frac{182-157}{157} \times 100\% = 15,92\%$$

$$\text{Hari ke-35} = \frac{194-182}{182} \times 100\% = 6,59\%$$

Tikus 5

$$\text{Hari ke-7} = \frac{190-194}{194} \times 100\% = -2,06\%$$

$$\text{Hari ke-14} = \frac{185-190}{190} \times 100\% = -2,11\%$$

$$\text{Hari ke-21} = \frac{201-186}{186} \times 100\% = 8,06\%$$

$$\text{Hari ke-28} = \frac{232-201}{201} \times 100\% = 15,42\%$$

$$\text{Hari ke-35} = \frac{239-232}{232} \times 100\% = 3,02\%$$

Tikus 3

$$\text{Hari ke-7} = \frac{116-113}{113} \times 100\% = 2,65\%$$

$$\text{Hari ke-14} = \frac{139-116}{116} \times 100\% = 19,83\%$$

$$\text{Hari ke-21} = \frac{160-139}{139} \times 100\% = 15,11\%$$

$$\text{Hari ke-28} = \frac{178-160}{160} \times 100\% = 11,25\%$$

$$\text{Hari ke-35} = \frac{187-178}{178} \times 100\% = 5,06\%$$

% Perubahan Kadar Gula Darah Tikus Pakan Standar

Tikus 1

$$\text{Hari ke-7} = \frac{80-119}{119} \times 100\% = -32,77\%$$

$$\text{Hari ke-14} = \frac{141-80}{80} \times 100\% = 76,25\%$$

$$\text{Hari ke-21} = \frac{103-141}{141} \times 100\% = -26,95\%$$

$$\text{Hari ke-28} = \frac{131-103}{103} \times 100\% = 27,18\%$$

$$\text{Hari ke-35} = \frac{116-131}{131} \times 100\% = -11,45\%$$

Tikus 4

$$\text{Hari ke-7} = \frac{149-154}{154} \times 100\% = -3,25\%$$

$$\text{Hari ke-14} = \frac{118-149}{149} \times 100\% = -20,81\%$$

$$\text{Hari ke-21} = \frac{108-118}{118} \times 100\% = -8,47\%$$

$$\text{Hari ke-28} = \frac{124-108}{108} \times 100\% = 14,81\%$$

$$\text{Hari ke-35} = \frac{114-124}{124} \times 100\% = -8,06\%$$

Tikus 2

$$\text{Hari ke-7} = \frac{85-86}{86} \times 100\% = -1,16\%$$

$$\text{Hari ke-14} = \frac{89-85}{85} \times 100\% = 4,71\%$$

$$\text{Hari ke-21} = \frac{91-89}{89} \times 100\% = 2,25\%$$

$$\text{Hari ke-28} = \frac{89-91}{91} \times 100\% = -2,20\%$$

$$\text{Hari ke-35} = \frac{103-89}{89} \times 100\% = 15,73\%$$

Tikus 5

$$\text{Hari ke-7} = \frac{97-95}{95} \times 100\% = 2,11\%$$

$$\text{Hari ke-14} = \frac{94-97}{97} \times 100\% = -3,09\%$$

$$\text{Hari ke-21} = \frac{155-94}{94} \times 100\% = 64,89\%$$

$$\text{Hari ke-28} = \frac{108-155}{155} \times 100\% = -30,32\%$$

$$\text{Hari ke-35} = \frac{88-108}{108} \times 100\% = -18,52\%$$

Tikus 3

$$\text{Hari ke-7} = \frac{572-66}{66} \times 100\% = 766,67\%$$

$$\text{Hari ke-14} = \frac{511-572}{572} \times 100\% = -10,66\%$$

$$\text{Hari ke-21} = \frac{551-511}{511} \times 100\% = 7,83\%$$

$$\text{Hari ke-28} = \frac{337-551}{551} \times 100\% = -38,84\%$$

$$\text{Hari ke-35} = \frac{94-337}{337} \times 100\% = -72,11\%$$

% Perubahan Berat Badan Tikus yang diberi Sorbet Pisang (SP)

Tikus 1

$$\text{Hari ke-7} = \frac{137-124}{124} \times 100\% = 10,48\%$$

$$\text{Hari ke-14} = \frac{151-137}{137} \times 100\% = 10,22\%$$

$$\text{Hari ke-21} = \frac{169-151}{151} \times 100\% = 11,92\%$$

$$\text{Hari ke-28} = \frac{173-169}{169} \times 100\% = 2,37\%$$

$$\text{Hari ke-35} = \frac{179-173}{173} \times 100\% = 3,47\%$$

Tikus 4

$$\text{Hari ke-7} = \frac{196-167}{167} \times 100\% = 17,37\%$$

$$\text{Hari ke-14} = \frac{173-196}{196} \times 100\% = -11,73\%$$

$$\text{Hari ke-21} = \frac{169-173}{173} \times 100\% = -2,31\%$$

$$\text{Hari ke-28} = \frac{171-169}{169} \times 100\% = 1,18\%$$

$$\text{Hari ke-35} = \frac{155-171}{171} \times 100\% = -9,36\%$$

Tikus 2

$$\text{Hari ke-7} = \frac{164-125}{125} \times 100\% = 31,20\%$$

$$\text{Hari ke-14} = \frac{184-164}{164} \times 100\% = 12,20\%$$

$$\text{Hari ke-21} = \frac{199-184}{184} \times 100\% = 8,15\%$$

$$\text{Hari ke-28} = \frac{206-199}{199} \times 100\% = 3,52\%$$

Hari ke-35= -

Tikus 5

$$\text{Hari ke-7} = \frac{190-148}{148} \times 100\% = 28,38\%$$

$$\text{Hari ke-14} = \frac{216-190}{190} \times 100\% = 13,68\%$$

$$\text{Hari ke-21} = \frac{239-216}{216} \times 100\% = 10,65\%$$

$$\text{Hari ke-28} = \frac{247-239}{239} \times 100\% = 3,35\%$$

$$\text{Hari ke-35} = \frac{257-247}{247} \times 100\% = 4,05\%$$

Tikus 3

$$\text{Hari ke-7} = \frac{196-160}{160} \times 100\% = 22,50\%$$

$$\text{Hari ke-14} = \frac{225-196}{196} \times 100\% = 14,80\%$$

$$\text{Hari ke-21} = \frac{246-225}{225} \times 100\% = 9,33\%$$

$$\text{Hari ke-28} = \frac{253-246}{246} \times 100\% = 2,85\%$$

$$\text{Hari ke-35} = \frac{268-253}{253} \times 100\% = 5,93\%$$

% Perubahan Kadar Gula Darah Tikus yang diberi Sorbet Pisang (SP)

Tikus 1

$$\text{Hari ke-7} = \frac{436-478}{478} \times 100\% = -8,79\%$$

$$\text{Hari ke-14} = \frac{289-436}{436} \times 100\% = -33,72\%$$

$$\text{Hari ke-21} = \frac{315-289}{289} \times 100\% = 9,00\%$$

$$\text{Hari ke-28} = \frac{112-315}{315} \times 100\% = -64,18\%$$

$$\text{Hari ke-35} = \frac{315-112}{112} \times 100\% = 181,25\%$$

Tikus 4

$$\text{Hari ke-7} = \frac{95-172}{172} \times 100\% = -44,77\%$$

$$\text{Hari ke-14} = \frac{84-95}{95} \times 100\% = -11,58\%$$

$$\text{Hari ke-21} = \frac{118-84}{84} \times 100\% = 40,48\%$$

$$\text{Hari ke-28} = \frac{72-118}{118} \times 100\% = -38,98\%$$

$$\text{Hari ke-35} = \frac{64-72}{72} \times 100\% = -11,11\%$$

Tikus 2

$$\text{Hari ke-7} = \frac{150-430}{430} \times 100\% = -65,12\%$$

$$\text{Hari ke-14} = \frac{146-150}{150} \times 100\% = -2,67\%$$

$$\text{Hari ke-21} = \frac{168-146}{146} \times 100\% = 15,07\%$$

$$\text{Hari ke-28} = \frac{127-168}{168} \times 100\% = -24,40\%$$

Hari ke-35= -

Tikus 5

$$\text{Hari ke-7} = \frac{121-246}{246} \times 100\% = -50,81\%$$

$$\text{Hari ke-14} = \frac{126-121}{121} \times 100\% = 4,13\%$$

$$\text{Hari ke-21} = \frac{118-126}{126} \times 100\% = -6,35\%$$

$$\text{Hari ke-28} = \frac{87-118}{118} \times 100\% = -26,27\%$$

$$\text{Hari ke-35} = \frac{94-87}{87} \times 100\% = 8,05\%$$

Tikus 3

$$\text{Hari ke-7} = \frac{105-213}{213} \times 100\% = -50,70\%$$

$$\text{Hari ke-14} = \frac{142-105}{105} \times 100\% = 35,24\%$$

$$\text{Hari ke-21} = \frac{124-142}{142} \times 100\% = -12,68\%$$

$$\text{Hari ke-28} = \frac{94-124}{124} \times 100\% = -24,19\%$$

$$\text{Hari ke-35} = \frac{103-94}{94} \times 100\% = 9,57\%$$

% Perubahan Berat Badan Tikus yang diberi Sorbet dengan Penambahan Isolat Protein Daun Yakon sebanyak 25 mg/kg BB (SP+IP25Y)

Tikus 1

$$\text{Hari ke-7} = \frac{187-144}{144} \times 100\% = 29,86\%$$

$$\text{Hari ke-14} = \frac{204-187}{187} \times 100\% = 9,09\%$$

$$\text{Hari ke-21} = \frac{219-204}{204} \times 100\% = 7,35\%$$

$$\text{Hari ke-28} = \frac{222-219}{219} \times 100\% = 1,37\%$$

$$\text{Hari ke-35} = \frac{242-222}{222} \times 100\% = 9,01\%$$

Tikus 4

$$\text{Hari ke-7} = \frac{225-168}{168} \times 100\% = 33,93\%$$

$$\text{Hari ke-14} = \frac{230-225}{225} \times 100\% = 2,22\%$$

$$\text{Hari ke-21} = \frac{231-230}{230} \times 100\% = 0,43\%$$

$$\text{Hari ke-28} = \frac{235-231}{231} \times 100\% = 1,73\%$$

$$\text{Hari ke-35} = \frac{250-235}{235} \times 100\% = 6,38\%$$

Tikus 2

$$\text{Hari ke-7} = \frac{163-123}{123} \times 100\% = 32,52\%$$

$$\text{Hari ke-14} = \frac{170-163}{163} \times 100\% = 4,29\%$$

$$\text{Hari ke-21} = \frac{188-170}{170} \times 100\% = 10,59\%$$

$$\text{Hari ke-28} = \frac{196-188}{188} \times 100\% = 4,26\%$$

$$\text{Hari ke-35} = \frac{212-196}{196} \times 100\% = 8,16\%$$

Tikus 5

$$\text{Hari ke-7} = \frac{168-142}{142} \times 100\% = 18,31\%$$

$$\text{Hari ke-14} = \frac{190-168}{168} \times 100\% = 13,10\%$$

$$\text{Hari ke-21} = \frac{198-190}{190} \times 100\% = 4,21\%$$

$$\text{Hari ke-28} = \frac{213-198}{198} \times 100\% = 7,58\%$$

$$\text{Hari ke-35} = \frac{227-213}{213} \times 100\% = 6,57\%$$

Tikus 3

$$\text{Hari ke-7} = \frac{155-110}{110} \times 100\% = 40,91\%$$

$$\text{Hari ke-14} = \frac{182-155}{155} \times 100\% = 17,42\%$$

$$\text{Hari ke-21} = \frac{200-182}{182} \times 100\% = 9,89\%$$

$$\text{Hari ke-28} = \frac{211-200}{200} \times 100\% = 5,05\%$$

$$\text{Hari ke-35} = \frac{237-211}{211} \times 100\% = 12,32\%$$

% Perubahan Kadar Gula Darah Tikus yang diberi Sorbet dengan Penambahan Isolat Protein Daun Yakon sebanyak 25 mg/kg BB (SP+IP25Y)

Tikus 1

$$\text{Hari ke-7} = \frac{190-152}{152} \times 100\% = 25,00\%$$

$$\text{Hari ke-14} = \frac{130-190}{190} \times 100\% = -31,58\%$$

$$\text{Hari ke-21} = \frac{103-130}{130} \times 100\% = -20,77\%$$

$$\text{Hari ke-28} = \frac{75-103}{103} \times 100\% = -27,18\%$$

$$\text{Hari ke-35} = \frac{99-75}{75} \times 100\% = 32,00\%$$

Tikus 4

$$\text{Hari ke-7} = \frac{101-135}{135} \times 100\% = -25,19\%$$

$$\text{Hari ke-14} = \frac{82-101}{101} \times 100\% = -18,81\%$$

$$\text{Hari ke-21} = \frac{64-82}{82} \times 100\% = -21,95\%$$

$$\text{Hari ke-28} = \frac{75-64}{64} \times 100\% = 17,19\%$$

$$\text{Hari ke-35} = \frac{89-75}{75} \times 100\% = 18,67\%$$

Tikus 2

$$\text{Hari ke-7} = \frac{119-600}{600} \times 100\% = -80,17\%$$

$$\text{Hari ke-14} = \frac{89-119}{119} \times 100\% = -25,21\%$$

$$\text{Hari ke-21} = \frac{101-89}{89} \times 100\% = 13,48\%$$

$$\text{Hari ke-28} = \frac{59-101}{101} \times 100\% = -41,58\%$$

$$\text{Hari ke-35} = \frac{89-59}{59} \times 100\% = 50,85\%$$

Tikus 5

$$\text{Hari ke-7} = \frac{114-176}{176} \times 100\% = -35,23\%$$

$$\text{Hari ke-14} = \frac{116-114}{114} \times 100\% = 1,75\%$$

$$\text{Hari ke-21} = \frac{80-116}{116} \times 100\% = -31,03\%$$

$$\text{Hari ke-28} = \frac{96-80}{80} \times 100\% = 20,00\%$$

$$\text{Hari ke-35} = \frac{106-96}{96} \times 100\% = 10,42\%$$

Tikus 3

$$\text{Hari ke-7} = \frac{134-600}{600} \times 100\% = -77,67\%$$

$$\text{Hari ke-14} = \frac{114-134}{134} \times 100\% = -14,93\%$$

$$\text{Hari ke-21} = \frac{94-114}{114} \times 100\% = -17,54\%$$

$$\text{Hari ke-28} = \frac{75-94}{94} \times 100\% = -20,21\%$$

$$\text{Hari ke-35} = \frac{110-75}{75} \times 100\% = 46,67\%$$

% Perubahan Berat Badan Tikus yang diberi Sorbet dengan Penambahan Isolat Protein Daun Yakon sebanyak 50 mg/kg BB (SP+IP50Y)

Tikus 1

$$\text{Hari ke-7} = \frac{172-151}{151} \times 100\% = 13,91\%$$

$$\text{Hari ke-14} = \frac{195-172}{172} \times 100\% = 13,37\%$$

$$\text{Hari ke-21} = \frac{205-195}{195} \times 100\% = 5,13\%$$

$$\text{Hari ke-28} = \frac{206-205}{205} \times 100\% = 0,49\%$$

$$\text{Hari ke-35} = \frac{236-206}{206} \times 100\% = 14,56\%$$

Tikus 4

$$\text{Hari ke-7} = \frac{192-144}{144} \times 100\% = 33,33\%$$

$$\text{Hari ke-14} = \frac{216-192}{192} \times 100\% = 12,50\%$$

$$\text{Hari ke-21} = \frac{233-216}{216} \times 100\% = 7,87\%$$

$$\text{Hari ke-28} = \frac{226-233}{233} \times 100\% = -3,00\%$$

$$\text{Hari ke-35} = \frac{260-226}{226} \times 100\% = 15,04\%$$

Tikus 2

$$\text{Hari ke-7} = \frac{149-110}{110} \times 100\% = 35,45\%$$

$$\text{Hari ke-14} = \frac{167-149}{149} \times 100\% = 12,08\%$$

$$\text{Hari ke-21} = \frac{190-167}{167} \times 100\% = 13,77\%$$

$$\text{Hari ke-28} = \frac{191-190}{190} \times 100\% = 0,53\%$$

$$\text{Hari ke-35} = \frac{212-191}{191} \times 100\% = 10,99\%$$

Tikus 5

$$\text{Hari ke-7} = \frac{231-209}{209} \times 100\% = 10,53\%$$

$$\text{Hari ke-14} = \frac{248-231}{231} \times 100\% = 7,36\%$$

$$\text{Hari ke-21} = \frac{243-248}{248} \times 100\% = -2,02\%$$

$$\text{Hari ke-28} = -$$

$$\text{Hari ke-35} = -$$

Tikus 3

$$\text{Hari ke-7} = \frac{209-185}{185} \times 100\% = 12,97\%$$

$$\text{Hari ke-14} = \frac{226-209}{209} \times 100\% = 8,13\%$$

$$\text{Hari ke-21} = \frac{230-226}{226} \times 100\% = 1,77\%$$

$$\text{Hari ke-28} = \frac{247-230}{230} \times 100\% = 7,39\%$$

$$\text{Hari ke-35} = \frac{265-247}{247} \times 100\% = 7,29\%$$

% Perubahan Kadar Gula Darah Tikus yang diberi Sorbet dengan Penambahan Isolat Protein Daun Yakon sebanyak 50 mg/kg BB (SP+IP50Y)

Tikus 1

$$\text{Hari ke-7} = \frac{103-264}{264} \times 100\% = -60,98\%$$

$$\text{Hari ke-14} = \frac{121-103}{103} \times 100\% = 17,48\%$$

$$\text{Hari ke-21} = \frac{110-121}{121} \times 100\% = -9,09\%$$

$$\text{Hari ke-28} = \frac{110-110}{110} \times 100\% = 00,00\%$$

$$\text{Hari ke-35} = \frac{106-110}{110} \times 100\% = -3,64\%$$

Tikus 4

$$\text{Hari ke-7} = \frac{138-300}{300} \times 100\% = -54,00\%$$

$$\text{Hari ke-14} = \frac{118-138}{138} \times 100\% = -14,49\%$$

$$\text{Hari ke-21} = \frac{108-118}{118} \times 100\% = -8,47\%$$

$$\text{Hari ke-28} = \frac{99-108}{108} \times 100\% = -8,33\%$$

$$\text{Hari ke-35} = \frac{112-99}{99} \times 100\% = 13,13\%$$

Tikus 2

$$\text{Hari ke-7} = \frac{400-600}{600} \times 100\% = -33,33\%$$

$$\text{Hari ke-14} = \frac{395-400}{400} \times 100\% = -1,25\%$$

$$\text{Hari ke-21} = \frac{262-395}{395} \times 100\% = -33,67\%$$

$$\text{Hari ke-28} = \frac{260-262}{262} \times 100\% = -0,76\%$$

$$\text{Hari ke-35} = \frac{262-260}{260} \times 100\% = 0,77\%$$

Tikus 5

$$\text{Hari ke-7} = \frac{103-132}{132} \times 100\% = -21,97\%$$

$$\text{Hari ke-14} = \frac{106-103}{103} \times 100\% = 2,91\%$$

$$\text{Hari ke-21} = \frac{128-106}{106} \times 100\% = 20,75\%$$

$$\text{Hari ke-28} = -$$

$$\text{Hari ke-35} = -$$

Tikus 3

$$\text{Hari ke-7} = \frac{131-226}{226} \times 100\% = -42,04\%$$

$$\text{Hari ke-14} = \frac{118-131}{131} \times 100\% = -9,92\%$$

$$\text{Hari ke-21} = \frac{115-118}{118} \times 100\% = -2,54\%$$

$$\text{Hari ke-28} = \frac{101-115}{115} \times 100\% = -12,17\%$$

$$\text{Hari ke-35} = \frac{118-101}{101} \times 100\% = 16,83\%$$

Lampiran 6. Dokumentasi Penelitian

❖ Isolasi Protein Daun Yakon



❖ Pembuatan Sorbet Pisang



Pisang ambon yang belum terlalu matang



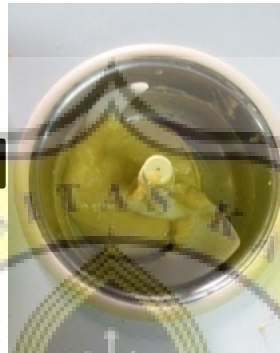
Pisang ditimbang



Pisang diblanching



Sorbet yang telah membeku



Bahan yang telah halus dimasukkan ke dalam *ice cream maker*



Semua bahan dihaluskan dengan blender



Penampakan sorbet pisang (dari kiri ke kanan adalah SP, SP+IP25Y dan SP+IP50Y).

Pemilihan Tikus Uji



Tikus yang akan diuji dipilih menurut berat badan yang memenuhi kriteria uji dan dipisahkan dengan tikus yang lainnya.

Induksi Streptozotosin



Tikus diinduksi secara intraperitoneal menggunakan STZ

Perlakuan Sonde



Tikus diberi perlakuan dengan disonde sonde sorbet pisang

Pengukuran Kadar Gula darah



Tikus dilukai ekornya untuk diambil darahnya dan diukur kadar gula darahnya menggunakan glukometer “easytouch”

Pengukuran Berat Badan



Tikus uji diukur berat badannya dengan menggunakan timbangan

Kondisi Kandang Tikus



Kondisi ketika dilakukan perawatan harian di kandang tikus



Rak-rak yang berisi tikus uji