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LAMPIRAN

FOTO-FOTO PROSES PENELITIAN



Gambar 9 Sisik bandeng diperoleh dari ikan bandeng (*Chanos-chanos*) yang berasal dari Kabupaten Pangkep, Sulawesi Selatan. Sisik ikan bandeng kemudian dibersihkan menggunakan air mengalir. Berat total sisik ikan yang diperoleh sebanyak 533 gram. (19 April 2021)



Gambar 10 Sisik ikan bandeng dibungkus dalam aluminium foil untuk pengeringan merata, dikeringkan dalam oven pada suhu 50-55°C selama tujuh hari, lalu dihaluskan

dengan blender dan diayak. Diperoleh serbuk sisik ikan sebanyak 59 gram. (19 April 2021)



Gambar 11 Proses deproteinase dilakukan dengan pengadukan larutan NaOH 3,5 N pada suhu 90°C derajat selama 1 jam pada 50 rpm, kemudian disaring. Padatan yang diperoleh dibilas dengan akuades dan dikeringkan pada oven dengan suhu 70°C selama 24 jam (20 Mei 2021). Selanjutnya dilakukan demineralisasi untuk memperoleh kitin



Gambar 12 Proses deasetilasi dilakukan dengan merendam kitin dalam larutan NaOH 40% dengan suhu 90°C selama 1,5 jam hingga diperoleh kitosan yang berwarna putih dan tidak berbau menyengat (22 Mei 2021). Uji derajat deasetilasi menunjukkan kitosan dengan derajat deasetilasi 96% (24 Mei 2021). Serbuk kitosan kemudian dicampurkan dengan gliserin, akuades, dan metil paraben untuk menghasilkan gel kitosan (7 Juni 2021)



Gambar 13 Setelah marmut diadaptasikan selama 7 hari (20 Mei 2021), marmut dibagi menjadi 4 kelompok yaitu kelompok 1 (soket diisi dengan kitosan sisik ikan bandeng), kelompok 2 (soket gigi diisi xenograft/ kontrol positif), kelompok 3 (soket gigi diisi dengan kombinasi kitosan dan xenograft), dan kelompok 4 (soket gigi diisi dengan gel placebo/ kontrol negatif). Gigi insisivus kanan mandibula dicabut menggunakan needle holder. Soket diirigasi dengan larutan saline. Prosedur socket preservation dilakukan sesuai dengan kelompok perlakuan masing-masing (14 Juni 2021).



Gambar 14 Setelah pencabutan gigi insisivus rahang bawah dan diberi perlakuan, marmut dikorbankan pada hari ke 3 (18 Juni 2021), 7 (21 Juni 2021), 14 (28 Juni 2021), dan 28 (12 Juli 2021) untuk pengambilan jaringan pada rahang mandibula dan difiksasi menggunakan larutan buffer formalin 10% sebagai sampel penelitian

```

* Chart Builder.
GGRAPH
  /GRAPHDATASET NAME="graphdataset" VARIABLES=KELOMPOK MEANSE(Wb,
1)[name="MEAN_Wb" LOW="MEAN_Wb_LOW" HIGH="MEAN_Wb_HIGH"]
MISSING=LISTWISE REPORTMISSING=NO
  /GRAPHSPEC SOURCE=INLINE.
BEGIN GPL
  SOURCE: s=userSource(id("graphdataset"))
  DATA: KELOMPOK=col(source(s), name("KELOMPOK"), unit.category())
  DATA: MEAN_Wb=col(source(s), name("MEAN_Wb"))
  DATA: LOW=col(source(s), name("MEAN_Wb_LOW"))
  DATA: HIGH=col(source(s), name("MEAN_Wb_HIGH"))
  GUIDE: axis(dim(1), label("KELOMPOK"))
  GUIDE: axis(dim(2), label("Mean Wb"))
  GUIDE: text.footnote(label("Error Bars: +/- 1 SE"))
  SCALE: cat(dim(1), include("2", "3", "4", "6", "7", "8", "14",
"15", "16"))
  SCALE: linear(dim(2), include(0))
  ELEMENT: interval(position(KELOMPOK*MEAN_Wb),
shape.interior(shape.square))
  ELEMENT:
interval(position(region.spread.range(KELOMPOK*(LOW+HIGH))),
shape.interior(shape.ibeam))
END GPL.

```

GGraph

Notes

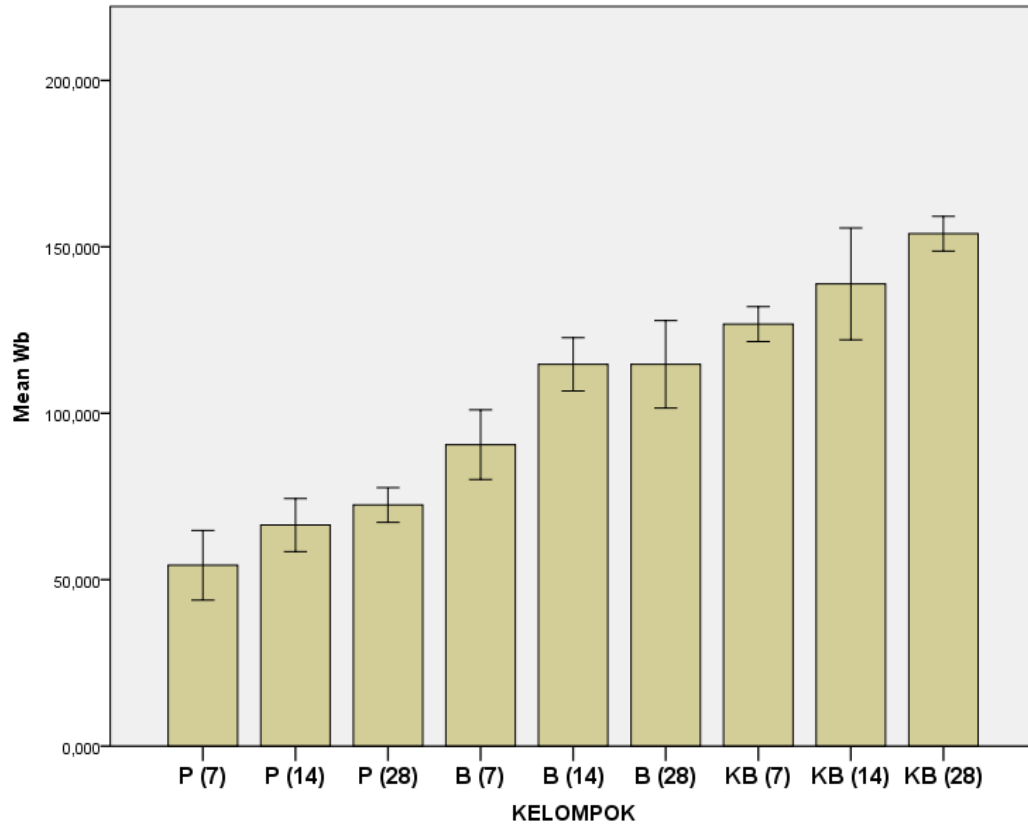
Output Created	01-OCT-2021 12:41:09
Comments	
Data	C:\Users\Panasonic\Documents\SHERL
Active Dataset	Y HE.sav
Filter	DataSet1
Weight	<none>
Split File	<none>
N of Rows in Working Data File	27

Syntax

```
GGRAPH
  /GRAPHDATASET
NAME="graphdataset"
VARIABLES=KELOMPOK MEANSE(Wb,
1)[name="MEAN_Wb"
LOW="MEAN_Wb_LOW"
HIGH="MEAN_Wb_HIGH"]
MISSING=LISTWISE
REPORTMISSING=NO
  /GRAPHSPEC SOURCE=INLINE.
BEGIN GPL
  SOURCE:
s=userSource(id("graphdataset"))
  DATA: KELOMPOK=col(source(s),
name("KELOMPOK"), unit.category())
  DATA: MEAN_Wb=col(source(s),
name("MEAN_Wb"))
  DATA: LOW=col(source(s),
name("MEAN_Wb_LOW"))
  DATA: HIGH=col(source(s),
name("MEAN_Wb_HIGH"))
  GUIDE: axis(dim(1),
label("KELOMPOK"))
  GUIDE: axis(dim(2), label("Mean Wb"))
  GUIDE: text.footnote(label("Error Bars:
+/- 1 SE"))
  SCALE: cat(dim(1), include("2", "3", "4",
"6", "7", "8", "14", "15", "16"))
  SCALE: linear(dim(2), include(0))
  ELEMENT:
interval(position(KELOMPOK*MEAN_Wb
), shape.interior(shape.square))
  ELEMENT:
interval(position(region.spread.range(KE
LOMPOK*(LOW+HIGH))),
shape.interior(shape.ibeam))
END GPL.
```

Resources	Processor Time	00:00:00,52
	Elapsed Time	00:00:00,49

[DataSet1] C:\Users\Panasonic\Documents\SHERLY HE.sav



```
ONEWAY Wb BY KELOMPOK
  /STATISTICS DESCRIPTIVES HOMOGENEITY
  /MISSING ANALYSIS
  /POSTHOC=TUKEY ALPHA(0.05).
```

Oneway

Notes

Output Created

01-OCT-2021 12:41:16

Comments		C:\Users\Panasonic\Documents\SHERL
	Data	Y HE.sav
	Active Dataset	DataSet1
Input	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	27
	Definition of Missing	User-defined missing values are treated as missing.
Missing Value Handling	Cases Used	Statistics for each analysis are based on cases with no missing data for any variable in the analysis.
Syntax		ONEWAY Wb BY KELOMPOK /STATISTICS DESCRIPTIVES HOMOGENEITY /MISSING ANALYSIS /POSTHOC=TUKEY ALPHA(0.05).
Resources	Processor Time	00:00:00,06
	Elapsed Time	00:00:00,07

[DataSet1] C:\Users\Panasonic\Documents\SHERLY HE.sav

Descriptives

Wb

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
P (7)	3	54,33600	18,112000	10,456968	9,34330	99,32870	36,224	72,448
P (14)	3	66,41067	13,833268	7,986641	32,04692	100,77441	54,336	81,504
P (28)	3	72,44800	9,056000	5,228484	49,95165	94,94435	63,392	81,504
B (7)	3	90,56000	18,112000	10,456968	45,56730	135,55270	72,448	108,672

B (14)	3	114,70933	13,833268	7,986641	80,34559	149,07308	99,616	126,784
B (28)	3	114,70933	22,790434	13,158063	58,09476	171,32391	90,560	135,840
KB (7)	3	126,78400	9,056000	5,228484	104,28765	149,28035	117,728	135,840
KB (14)	3	138,85867	29,110967	16,807225	66,54302	211,17432	117,728	172,064
KB (28)	3	153,95200	9,056000	5,228484	131,45565	176,44835	144,896	163,008
Total	27	103,64089	36,078580	6,943326	89,36868	117,91310	36,224	172,064

Test of Homogeneity of Variances

Wb

Levene Statistic	df1	df2	Sig.
1,234	8	18	,335

ANOVA

Wb

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	28539,875	8	3567,484	12,108	,000
Within Groups	5303,387	18	294,633		
Total	33843,262	26			

Post Hoc Tests

Multiple Comparisons

Dependent Variable: Wb

Tukey HSD

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

	P (14)	-12,074667	14,015054	,993	-61,18148	37,03215
	P (28)	-18,112000	14,015054	,921	-67,21882	30,99482
	B (7)	-36,224000	14,015054	,258	-85,33082	12,88282
P (7)	B (14)	-60,373333	14,015054	,010	-109,48015	-11,26652
	B (28)	-60,373333	14,015054	,010	-109,48015	-11,26652
	KB (7)	-72,448000	14,015054	,002	-121,55482	-23,34118
	KB (14)	-84,522667	14,015054	,000	-133,62948	-35,41585
	KB (28)	-99,616000	14,015054	,000	-148,72282	-50,50918
	P (7)	12,074667	14,015054	,993	-37,03215	61,18148
	P (28)	-6,037333	14,015054	1,000	-55,14415	43,06948
P (14)	B (7)	-24,149333	14,015054	,726	-73,25615	24,95748
	B (14)	-48,298667	14,015054	,056	-97,40548	,80815
	B (28)	-48,298667	14,015054	,056	-97,40548	,80815
	KB (7)	-60,373333	14,015054	,010	-109,48015	-11,26652
	KB (14)	-72,448000	14,015054	,002	-121,55482	-23,34118
	KB (28)	-87,541333	14,015054	,000	-136,64815	-38,43452
	P (7)	18,112000	14,015054	,921	-30,99482	67,21882
P (28)	P (14)	6,037333	14,015054	1,000	-43,06948	55,14415
	B (7)	-18,112000	14,015054	,921	-67,21882	30,99482
	B (14)	-42,261333	14,015054	,125	-91,36815	6,84548
	B (28)	-42,261333	14,015054	,125	-91,36815	6,84548
	KB (7)	-54,336000	14,015054	,024	-103,44282	-5,22918
	KB (14)	-66,410667	14,015054	,004	-115,51748	-17,30385
	KB (28)	-81,504000	14,015054	,000	-130,61082	-32,39718
B (7)	P (7)	36,224000	14,015054	,258	-12,88282	85,33082
	P (14)	24,149333	14,015054	,726	-24,95748	73,25615
	P (28)	18,112000	14,015054	,921	-30,99482	67,21882
	B (14)	-24,149333	14,015054	,726	-73,25615	24,95748
	B (28)	-24,149333	14,015054	,726	-73,25615	24,95748
	KB (7)	-36,224000	14,015054	,258	-85,33082	12,88282
	KB (14)	-48,298667	14,015054	,056	-97,40548	,80815
B (14)	KB (28)	-63,392000	14,015054	,006	-112,49882	-14,28518
	P (7)	60,373333	14,015054	,010	11,26652	109,48015
	P (14)	48,298667	14,015054	,056	-,80815	97,40548
	P (28)	42,261333	14,015054	,125	-6,84548	91,36815
	B (7)	24,149333	14,015054	,726	-24,95748	73,25615
	B (28)	,000000	14,015054	1,000	-49,10682	49,10682
	KB (7)	-12,074667	14,015054	,993	-61,18148	37,03215

	KB (14)	-24,149333	14,015054	,726	-73,25615	24,95748
	KB (28)	-39,242667	14,015054	,182	-88,34948	9,86415
	P (7)	60,373333*	14,015054	,010	11,26652	109,48015
	P (14)	48,298667	14,015054	,056	-,80815	97,40548
	P (28)	42,261333	14,015054	,125	-6,84548	91,36815
B (28)	B (7)	24,149333	14,015054	,726	-24,95748	73,25615
	B (14)	,000000	14,015054	1,000	-49,10682	49,10682
	KB (7)	-12,074667	14,015054	,993	-61,18148	37,03215
	KB (14)	-24,149333	14,015054	,726	-73,25615	24,95748
	KB (28)	-39,242667	14,015054	,182	-88,34948	9,86415
	P (7)	72,448000*	14,015054	,002	23,34118	121,55482
	P (14)	60,373333*	14,015054	,010	11,26652	109,48015
KB (7)	P (28)	54,336000*	14,015054	,024	5,22918	103,44282
	B (7)	36,224000	14,015054	,258	-12,88282	85,33082
	B (14)	12,074667	14,015054	,993	-37,03215	61,18148
	B (28)	12,074667	14,015054	,993	-37,03215	61,18148
	KB (14)	-12,074667	14,015054	,993	-61,18148	37,03215
	KB (28)	-27,168000	14,015054	,599	-76,27482	21,93882
	P (7)	84,522667*	14,015054	,000	35,41585	133,62948
KB (14)	P (14)	72,448000*	14,015054	,002	23,34118	121,55482
	P (28)	66,410667*	14,015054	,004	17,30385	115,51748
	B (7)	48,298667	14,015054	,056	-,80815	97,40548
	B (14)	24,149333	14,015054	,726	-24,95748	73,25615
	B (28)	24,149333	14,015054	,726	-24,95748	73,25615
	KB (7)	12,074667	14,015054	,993	-37,03215	61,18148
	KB (28)	-15,093333	14,015054	,971	-64,20015	34,01348
KB (28)	P (7)	99,616000*	14,015054	,000	50,50918	148,72282
	P (14)	87,541333*	14,015054	,000	38,43452	136,64815
	P (28)	81,504000*	14,015054	,000	32,39718	130,61082
	B (7)	63,392000*	14,015054	,006	14,28518	112,49882
	B (14)	39,242667	14,015054	,182	-9,86415	88,34948
	B (28)	39,242667	14,015054	,182	-9,86415	88,34948
	KB (7)	27,168000	14,015054	,599	-21,93882	76,27482
	KB (14)	15,093333	14,015054	,971	-34,01348	64,20015

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

Homogeneous Subsets

Wb

Tukey HSD^a

KELOMPOK	N	Subset for alpha = 0.05			
		1	2	3	4
P (7)	3	54,33600			
P (14)	3	66,41067	66,41067		
P (28)	3	72,44800	72,44800		
B (7)	3	90,56000	90,56000	90,56000	
B (14)	3		114,70933	114,70933	114,70933
B (28)	3		114,70933	114,70933	114,70933
KB (7)	3			126,78400	126,78400
KB (14)	3			138,85867	138,85867
KB (28)	3				153,95200
Sig.		,258	,056	,056	,182

Means for groups in homogeneous subsets are displayed.

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