

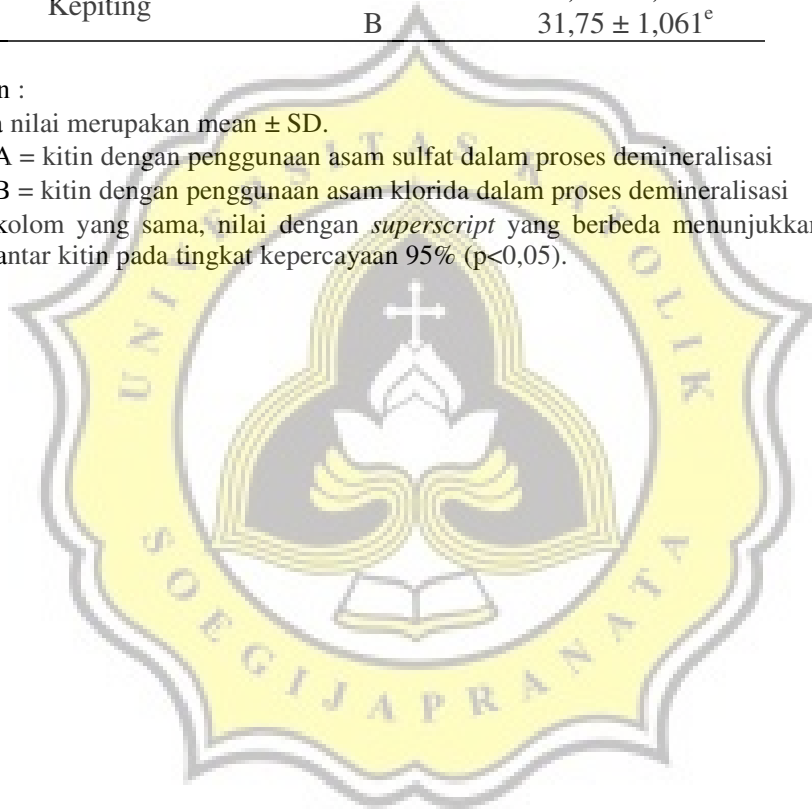
7. LAMPIRAN

Lampiran 1. Rendemen Kitin

Cangkang	Kitin	Rendemen (%)
Udang	A	23,833 ± 0,236 ^a
	B	25,75 ± 1,061 ^b
Rajungan	A	28,5 ± 0,707 ^{cd}
	B	27,25 ± 0,354 ^{bc}
Kepiting	A	29,25 ± 0,354 ^d
	B	31,75 ± 1,061 ^e

Keterangan :

- Semua nilai merupakan mean ± SD.
- Kitin A = kitin dengan penggunaan asam sulfat dalam proses demineralisasi
- Kitin B = kitin dengan penggunaan asam klorida dalam proses demineralisasi
- Pada kolom yang sama, nilai dengan *superscript* yang berbeda menunjukkan perbedaan nyata antar kitin pada tingkat kepercayaan 95% ($p < 0,05$).



Lampiran 2. Oneway ANOVA Perbedaan Rendemen Tepung Cangkang

Descriptives

RENDEMEN

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
udang	3	63,63433	1,911327	1,103505	58,88633	68,38233	61,433	64,872
rajungan	3	44,62100	6,181073	3,568644	29,26636	59,97564	39,009	51,246
kepiting	3	62,49600	2,042480	1,179226	57,42220	67,56980	60,842	64,779
Total	9	56,91711	9,838568	3,279523	49,35452	64,47970	39,009	64,872

ANOVA

RENDEMEN

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	682,318	2	341,159	22,235	,002
Within Groups	92,061	6	15,344		
Total	774,379	8			

RENDEMEN

Duncan^a

TP_CANGK	N	Subset for alpha = .05	
		1	2
rajungan	3	44,62100	
kepiting	3		62,49600
udang	3		63,63433
Sig.		1,000	,734

Means for groups in homogeneous subsets are displayed.

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

Lampiran 3. *Oneway* ANOVA Perbedaan Karakteristik Kimia Tepung Cangkang

Descriptives

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum	
					Lower Bound	Upper Bound			
K_AIR	udang	3	,41667	,019553	,011289	,36809	,46524	,395	,433
	rajungan	3	1,75633	,072397	,041798	1,57649	1,93618	1,697	1,837
	kepiting	3	2,73467	,194073	,112048	2,25256	3,21677	2,513	2,874
	Total	9	1,63589	1,013135	,337712	,85712	2,41465	,395	2,874
K_ABU	udang	3	30,27033	,453165	,261635	29,14461	31,39606	29,762	30,632
	rajungan	3	46,18467	,201637	,116415	45,68377	46,68556	46,016	46,408
	kepiting	3	35,38533	,957566	,552851	33,00661	37,76406	34,629	36,462
	Total	9	37,28011	7,056741	2,352247	31,85582	42,70440	29,762	46,408
K_LMK	udang	3	15,500	,8660	,5000	13,349	17,651	14,5	16,0
	rajungan	3	9,833	,7638	,4410	7,936	11,731	9,0	10,5
	kepiting	3	8,833	,7638	,4410	6,936	10,731	8,0	9,5
	Total	9	11,389	3,1896	1,0632	8,937	13,841	8,0	16,0
K_PROT	udang	3	26,2500	,35000	,20207	25,3806	27,1194	25,90	26,60
	rajungan	3	13,3133	,37501	,21651	12,3818	14,2449	12,94	13,69
	kepiting	3	17,1500	,35000	,20207	16,2806	18,0194	16,80	17,50
	Total	9	18,9044	5,76258	1,92086	14,4749	23,3340	12,94	26,60
KH	udang	3	27,5630	1,37528	,79402	24,1466	30,9794	26,35	29,06
	rajungan	3	28,9123	,48078	,27758	27,7180	30,1066	28,55	29,46
	kepiting	3	35,8967	1,57514	,90940	31,9838	39,8095	34,22	37,35
	Total	9	30,7907	4,01962	1,33987	27,7009	33,8804	26,35	37,35

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
K_AIR	Between Groups	8,125	2	4,062	281,543	,000
	Within Groups	,087	6	,014		
	Total	8,212	8			
K_ABU	Between Groups	396,055	2	198,027	510,842	,000
	Within Groups	2,326	6	,388		
	Total	398,381	8			
K_LMK	Between Groups	77,556	2	38,778	60,696	,000
	Within Groups	3,833	6	,639		
	Total	81,389	8			
K_PROT	Between Groups	264,887	2	132,444	1030,334	,000
	Within Groups	,771	6	,129		
	Total	265,659	8			
KH	Between Groups	120,052	2	60,026	39,117	,000
	Within Groups	9,207	6	1,535		
	Total	129,259	8			

Lampiran 4. Oneway ANOVA Perbedaan Rendemen Kitosan

Descriptives

RENDEMEN

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
udang-sulfat	2	21,4750	,17678	,12500	19,8867	23,0633	21,35	21,60
kepiting-sulfat	2	26,6500	,07071	,05000	26,0147	27,2853	26,60	26,70
rajungan-sulfat	2	26,2750	,38891	,27500	22,7808	29,7692	26,00	26,55
udang-klorida	2	21,7000	,56569	,40000	16,6175	26,7825	21,30	22,10
kepiting-klorida	2	26,8250	,67175	,47500	20,7896	32,8604	26,35	27,30
rajungan-klorida	2	26,5000	,28284	,20000	23,9588	29,0412	26,30	26,70
Total	12	24,9042	2,47565	,71466	23,3312	26,4771	21,30	27,30

ANOVA

RENDEMEN

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	66,379	5	13,276	76,683	,000
Within Groups	1,039	6	,173		
Total	67,417	11			

Lampiran 5. Oneway ANOVA Perbedaan Karakteristik Kimia Kitosan

A. Kadar Air

Descriptives

K_AIR

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
udang-sulfat	3	1,45100	,011000	,006351	1,42367	1,47833	1,440	1,462
kepiting-sulfat	3	1,47267	,058731	,033908	1,32677	1,61856	1,432	1,540
rajungan-sulfat	3	1,36233	,068135	,039338	1,19308	1,53159	1,286	1,417
udang-klorida	3	2,08567	,184717	,106646	1,62680	2,54453	1,881	2,240
kepiting-klorida	3	7,86767	,491604	,283828	6,64646	9,08888	7,312	8,246
rajungan-klorida	3	6,68867	,450294	,259977	5,57008	7,80726	6,311	7,187
Total	18	3,48800	2,800615	,660111	2,09529	4,88071	1,286	8,246

ANOVA

K_AIR

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	132,365	5	26,473	326,309	,000
Within Groups	,974	12	,081		
Total	133,339	17			

B. Kadar Abu

Descriptives

K ABU

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
udang-sulfat	3	,91667	,105368	,060834	,65492	1,17841	,795	,978
kepiting-sulfat	3	,81167	,102432	,059139	,55721	1,06612	,735	,928
rajungan-sulfat	3	,77367	,028711	,016576	,70234	,84499	,742	,798
udang-klorida	3	1,02267	,106086	,061249	,75913	1,28620	,956	1,145
kepiting-klorida	3	1,08233	,110817	,063980	,80705	1,35762	,960	1,176
rajungan-klorida	3	1,09700	,136737	,078945	,75733	1,43667	,940	1,190
Total	18	,95067	,156529	,036894	,87283	1,02851	,735	1,190

ANOVA

K ABU

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	,287	5	,057	5,331	,008
Within Groups	,129	12	,011		
Total	,417	17			

C. Derajat Deasetilasi

Descriptives

D_DEASET

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
udang-sulfat	3	92,2667	,52176	,30124	90,9705	93,5628	91,80	92,83
kepiting-sulfat	3	93,6933	,27135	,15667	93,0193	94,3674	93,38	93,85
rajungan-sulfat	3	80,5033	,63319	,36557	78,9304	82,0763	79,91	81,17
udang-klorida	3	90,5433	,40992	,23667	89,5250	91,5616	90,07	90,78
kepiting-klorida	3	72,4200	,15588	,09000	72,0328	72,8072	72,33	72,60
rajungan-klorida	3	86,8800	,41073	,23714	85,8597	87,9003	86,55	87,34
Total	18	86,0511	7,69141	1,81288	82,2263	89,8760	72,33	93,85

ANOVA

D_DEASET

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	1003,467	5	200,693	1086,950	,000
Within Groups	2,216	12	,185		
Total	1005,682	17			

Lampiran 6. Oneway ANOVA Pengujian Aktivitas Antimikrobia Kitosan

Descriptives

ZONA_BNG

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
udang-sulfat	3	20,62718	2,983055	1,722268	13,21686	28,03750	17,655	23,621
kepiting-sulfat	3	20,11170	,856586	,494550	17,98382	22,23958	19,123	20,606
rajungan-sulfat	3	9,18188	1,365908	,788607	5,78878	12,57499	7,819	10,550
udang-klorida	3	18,63328	,847521	,489317	16,52792	20,73864	17,655	19,123
kepiting-klorida	3	6,92370	,775006	,447450	4,99848	8,84892	6,476	7,819
rajungan-klorida	3	16,68648	,838457	,484083	14,60364	18,76933	16,202	17,655
Total	18	15,36071	5,653985	1,332657	12,54904	18,17237	6,476	23,621

ANOVA

ZONA_BNG

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	516,408	5	103,282	45,835	,000
Within Groups	27,040	12	2,253		
Total	543,448	17			

Lampiran 7. Bivariate Correlation Antara Luas Zona Bening dan Derajat Deasetilasi Kitosan

Descriptive Statistics

	Mean	Std. Deviation	N
D_DEASET	86,0511	7,69141	18
ZONA_BNG	15,36071	5,653985	18

Correlations

		D_DEASET	ZONA_BNG
D_DEASET	Pearson Correlation	1	,951**
	Sig. (2-tailed)	.	,000
	N	18	18
ZONA_BNG	Pearson Correlation	,951**	1
	Sig. (2-tailed)	,000	.
	N	18	18

** . Correlation is significant at the 0.01 level (2-tailed).

