

8. LAMPIRAN

Lampiran 1. Hasil Uji Pendahuluan

Parameter	Bahan Subtitusi		Pengerangan		Subtitusi nanas		
	Bonggol nanas	Daging buah nanas	Sangrai	Oven	75%	50%	25%
Overall	2,647	2,653	2,513	2,787	2,880	2,760	2,310
Warna	1,313	1,160	1,267	1,207	1,240	1,200	1,270
Aroma	1,927	2,020	1,793	2,153	2,100	2,050	1,770
Tekstur	2,940	2,727	2,673	2,993	2,860	2,840	2,800
Rasa Asam	2,953	2,880	2,993	2,840	2,620	2,930	2,800
Rasa Daging	2,200	2,487	2,173	2,513	2,860	2,370	1,800

Keterangan :

- 1 = lebih baik dari abon kontrol
- 2 = sama baik dengan abon kontrol
- 3 = lebih lemah dari abon kontrol
- 4 = berbeda jauh dari abon kontrol



2.2 Kuisisioner Uji Sensori II

UJI RATING HEDONIK

Nama : **Tanggal:**
Produk : **Abon**
Kriteria : **Warna**
Intruksi :

Dihadapan Anda terdapat 9 sampel abon. Berilah penilaian tentang tingkat kesukaan anda terhadap **Warna Abon** dengan memberikan tanda √ pada kotak dibawah kode sample. Setelah mencicipi satu sampel, harap minum. **Jangan membandingkan antar sampel.**

Penilaian	Kode sampel								
Sangat Suka									
Suka									
Agak Suka									
Netral									
Agak tidak suka									
Tidak suka									
Sangat tidak suka									

Komentar:

UJI RATING HEDONIK

Nama : **Tanggal:**
Produk : **Abon**
Kriteria : **Aroma**
Intruksi :

Dihadapan Anda terdapat 9 sampel abon. Berilah penilaian tentang tingkat kesukaan anda terhadap **Warna Abon** dengan memberikan tanda √ pada kotak dibawah kode sample. Setelah mencicipi satu sampel, harap minum terlebih dahulu. **Jangan membandingkan antar sampel.**

Penilaian	Kode sampel								
Sangat Suka									
Suka									
Agak Suka									
Netral									
Agak tidak suka									
Tidak suka									
Sangat tidak suka									

Komentar:

UJI RATING HEDONIK

Nama : **Tanggal:**
Produk : **Abon**
Kriteria : **Tekstur**
Intruksi :

Dihadapan Anda terdapat 9 sampel abon. Berilah penilaian tentang tingkat kesukaan anda terhadap **Aroma Abon** dengan memberikan tanda √ pada kotak dibawah kode sample. Setelah mencicipi satu sampel, harap minum terlebih dahulu. **Jangan membandingkan antar sampel.**

Penilaian	Kode sampel								
Sangat Suka									
Suka									
Agak Suka									
Netral									
Agak tidak suka									
Tidak suka									
Sangat tidak suka									

Komentar:

UJI RATING HEDONIK

Nama : **Tanggal:**
Produk : **Abon**
Kriteria : **Rasa**
Intruksi :

Dihadapan Anda terdapat 9 sampel abon. Berilah penilaian tentang tingkat kesukaan anda terhadap **Aroma Abon** dengan memberikan tanda √ pada kotak dibawah kode sampel. Setelah mencicipi satu sampel, harap minum terlebih dahulu. **Jangan membandingkan antar sampel.**

Penilaian	Kode sampel								
Sangat Suka									
Suka									
Agak Suka									
Netral									
Agak tidak suka									
Tidak suka									
Sangat tidak suka									

Komentar:

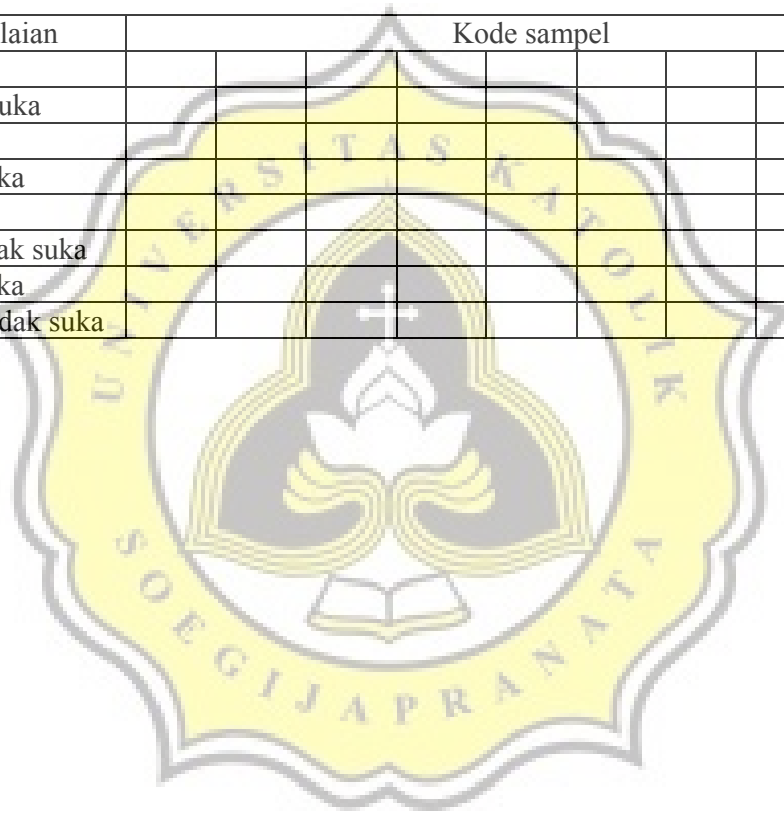
UJI RATING HEDONIK

Nama : **Tanggal:**
Produk : **Abon**
Kriteria : **Overall**
Intruksi :

Dihadapan Anda terdapat 9 sampel abon. Berilah penilaian tentang tingkat kesukaan anda terhadap **Tekstur Abon** dengan memberikan tanda \surd pada kotak dibawah kode sampel. Setelah mencicipi satu sampel, harap minum terlebih dahulu. **Jangan membandingkan antar sampel.**

Penilaian	Kode sampel								
Sangat Suka									
Suka									
Agak Suka									
Netral									
Agak tidak suka									
Tidak suka									
Sangat tidak suka									

Komentar:



2.3 Worksheet Uji Rating Hedonik

Tanggal pengujian :

Jenis sampel :

Identifikasi sampel :

KODE

- Abon dengan penambahan serat pangan TE, Ukuran partikel <100, formulasi 4% (A)
- Abon dengan penambahan serat pangan TE, Ukuran partikel <100, formulasi 8% (B)
- Abon dengan penambahan serat pangan TE, Ukuran partikel <100, formulasi 12% (C)
- Abon dengan penambahan serat pangan TE, Ukuran partikel 100-200, formulasi 4% (D)
- Abon dengan penambahan serat pangan TE, Ukuran partikel 100-200, formulasi 8% (E)
- Abon dengan penambahan serat pangan TE, Ukuran partikel 100-200, formulasi 12% (F)
- Abon dengan penambahan serat pangan TE, Ukuran partikel >200, formulasi 4% (G)
- Abon dengan penambahan serat pangan TE, Ukuran partikel >200, formulasi 8% (H)
- Abon dengan penambahan serat pangan TE, Ukuran partikel >200, formulasi 12% (I)
- Abon dengan penambahan serat pangan E, Ukuran partikel <100, formulasi 4% (J)
- Abon dengan penambahan serat pangan E, Ukuran partikel <100, formulasi 8% (K)
- Abon dengan penambahan serat pangan E, Ukuran partikel <100, formulasi 12% (L)
- Abon dengan penambahan serat pangan E, Ukuran partikel 100-200, formulasi 4% (M)
- Abon dengan penambahan serat pangan E, Ukuran partikel 100-200, formulasi 8% (N)
- Abon dengan penambahan serat pangan E, Ukuran partikel 100-200, formulasi 12% (O)
- Abon dengan penambahan serat pangan E, Ukuran partikel >200, formulasi 4% (P)
- Abon dengan penambahan serat pangan E, Ukuran partikel >200, formulasi 8% (Q)
- Abon dengan penambahan serat pangan E, Ukuran partikel >200, formulasi 12% (R)
- Kontrol (S)

Keterangan : TE (Tanpa Ekstraksi), E (Ekstraksi)

Penyajian uji sensori I

Booth	Panelis	Penyajian Sampel																			
I	1.5.9.13.17.21.25.29.33.37 41.45.49.53.57.61.65.69	A 862	B 223	C 756	D 544	E 681	F 199	G 918	H 335	I 477	J 653	K 749	L 522	M 475	N 894	O 116	P 381	Q 968	R 742	S 859	
II	2.6.10.14.18.22.26.30.34.38 42.46.50.54.58.62.66.70	A 964	B 177	C 228	D 591	E 636	F 415	G 383	H 975	I 257	J 723	K 448	L 539	M 661	N 394	O 882	P 116	Q 245	R 398	S 954	
III	3.7.11.15.19.23.27.31.35 39.43.47.51.55.59.63.67	A 537	B 829	C 113	D 481	E 662	F 776	G 489	H 824	I 967	J 172	K 333	L 218	M 641	N 755	O 421	P 878	Q 593	R 636	S 755	
IV	4.8.12.16.20.24.28.32.36 40.44.48.52.56.60.64.68	A 473	B 123	C 105	D 182	E 626	F 111	G 845	H 426	I 901	J 317	K 616	L 411	M 999	N 874	O 747	P 455	Q 444	R 171	S 575	

Penyajian uji sensori II

Booth	Panelis	Penyajian Sampel									
I	1.4.7.10.13.16.19.22.25.28	A 862	C 756	G 918	I 477	J 653	L 522	P 381	R 742	S 859	
II	2.5.8.11.14.17.20.23.26.29	A 964	C 228	G 383	I 257	J 723	L 539	P 116	R 398	S 954	
III	3.6.9.12.15.18.21.24.27.30	A 537	C 113	G 489	I 967	J 172	L 218	P 878	R 636	S 755	

Lampiran 3. Konversi Waktu Penyimpanan

Persamaan Arrhenius:

$$Q_{10}^{\Delta T/10} = \frac{T_s \text{ pada } T1}{T_s \text{ pada } T2}$$

Umur simpan daging yang dikeringkan pada suhu 21°C adalah 6 bulan (24 minggu)

$$Q_{10} = 2$$

$$T1 = 45^\circ\text{C}$$

Ts pada T2

$$2^{45-21/10} = \frac{24}{T_s}$$

$$2^{2.4} = \frac{24}{T_s}$$

$$5.28 T_s = 24$$

$$T_s \text{ pada } T2 = 4.5 \text{ minggu}$$

Pengujian umur simpan (Air, TBA, sensori)

Pengujian	Tanggal	Waktu <i>Climacell</i> (minggu)	Waktu sebenarnya (Bulan)
Minggu 0	28 Agustus 2007	0	0
Minggu 1	4 September 2007	1	$(5,28 \times 1):4 = 1,32$
Minggu 2	11 September 2007	2	$(5,28 \times 2):4 = 2,645$
Minggu 3	18 September 2007	3	$(5,28 \times 3):4 = 3,96$
Minggu 4	25 September 2007	4	$(5,28 \times 4):4 = 5,28$
Minggu 5	2 Oktober 2007	5	$(5,28 \times 5):4 = 6,6$

Lampiran 4. Standar Nasional Indonesia

SNI 01-3707-1995 ABON

1. Ruang Lingkup

Standar ini meliputi definisi, syarat mutu, cara pengambilan contoh, cara uji, syarat penandaan, dan cara pengemasan abon.

2. Definisi

Abon adalah jenis makanan kering berbentuk khas dibuat dengan daging, direbus, disayat-sayat, dibumbui, digoreng dan dipress.

3. Syarat mutu

Syarat mutu sesuai dengan tabel

Tabel Syarat Mutu Abon

No	Kriteria Uji	Satuan	Persyaratan
1	Kedaaan		
	1.1 Bentuk	-	Normal
	1.2 Bau	-	Normal
	1.3 Rasa	-	Normal
	1.4 Warna	-	Normal
2	Air	% b/b	Maks 7
3	Abu	% b/b	Maks 7
4	Abu tak larut dalam asam	% b/b	Maks 0.1
5	Lemak	% b/b	Maks 30
6	Protein	% b/b	Min 15
7	Serat kasar	% b/b	Maks 1
8	Gula sebagai jumlah sakarosa	% b/b	Maks 30
9	Pengawet	% b/b	Sesuai SNI 01-0222-87
10	Cemaran Logam		
	10.1 Timbal / Pb	Mg/Kg	Maks 2
	10.2 Tembaga / Cu	Mg/Kg	Maks 20
	10.3 Seng / Zn	Mg/Kg	Maks 40
	10.4 Timah /Zn	Mg/Kg	Maks 40
	10.5 Raksa / Hg	Mg/Kg	Maks 0.05
11	Cemaran Arsen / As	Mg/Kg	Maks 1
12	Cemaran Mikroba		
	12.1 Angka Lempeng Total	Koloni / gr	Maks 5×10^4
	12.2 MPN Coliform	Koloni / gr	Maks 10
	12.3 Salmonella	Koloni / gr	Negatif
	12.4 Staphylococcus aureus	Koloni / gr	0

Lampiran 5. Hasil Analisa Data menggunakan SPSS versi 13.0 for windows

5.1 One Way Anova Serat Nanas

5.2 One Way Anova Uji Kimia Abon

5.3 One Way Anova Umur Simpan TBA dan Kadar Air

5.4 Three Way Anova TBA dan Sensori minggu 0



5.1 One Way Anova Serat Nanas

1. Nanas

a. Serat Pangan (ADF)

Descriptive

ADF

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Min	Max
					Lower Bound	Upper Bound		
E,<100	6	41.5000	1.51658	.61914	39.9085	43.0915	40.00	44.00
E,100-200	6	40.6667	.81650	.33333	39.8098	41.5235	40.00	42.00
E,>200	6	40.1667	.98319	.40139	39.1349	41.1985	39.00	41.00
TE,<100	6	22.8333	1.47196	.60093	21.2886	24.3781	21.00	24.00
TE,100-200	6	21.6667	1.21106	.49441	20.3957	22.9376	20.00	23.00
TE,>200	6	22.3333	.81650	.33333	21.4765	23.1902	21.00	23.00
Total	36	31.5278	9.45814	1.57636	28.3276	34.7280	20.00	44.00

ADF

Duncan

kbinasi	N	Subset for alpha = .05	
		1	2
TE,100-200	6	21.6667	
TE,>200	6	22.3333	
TE,<100	6	22.8333	
E,>200	6		40.1667
E,100-200	6		40.6667
E,<100	6		41.5000
Sig.		.113	.071

Means for groups in homogeneous subsets are displayed.
a Uses Harmonic Mean Sample Size = 6.0

b. WHC

Descriptives

WHC

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Min	Max
					Lower Bound	Upper Bound		
E,<100	6	23.0333	2.19174	.89477	20.7332	25.3334	20.35	25.45
E,100-200	6	20.4433	1.89625	.77414	18.4533	22.4333	18.55	23.87
E,>200	6	15.0883	1.43735	.58680	13.5799	16.5967	13.50	16.63
TE,<100	6	13.1417	1.06638	.43535	12.0226	14.2608	11.25	14.15
TE,100-200	6	12.1867	1.31471	.53673	10.8070	13.5664	11.25	14.40
TE,>200	6	10.5550	.26372	.10766	10.2782	10.8318	10.25	10.84
Total	36	15.7414	4.77794	.79632	14.1248	17.3580	10.25	25.45

WHC

Duncan

kombinasi	N	Subset for alpha = .05				
		1	2	3	4	5
TE,>200	6	10.5550				
TE,100-200	6	12.1867	12.1867			
TE,<100	6		13.1417			
E,>200	6			15.0883		
E,100-200	6				20.4433	
E,<100	6					23.0333
Sig.		.068	.277	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a Uses Harmonic Mean Sample Size = 6.000.

c. OHC

Descriptives

OHC

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Min	Max
					Lower Bound	Upper Bound		
E,<100	6	4.3667	.58452	.23863	3.7532	4.9801	3.25	4.95
E,100-200	6	4.3250	.18097	.07388	4.1351	4.5149	4.05	4.55
E,>200	6	4.3667	1.10030	.44920	3.2120	5.5214	3.20	5.45
TE,<100	6	2.5750	.07583	.03096	2.4954	2.6546	2.45	2.65
TE,100-200	6	2.5083	.22004	.08983	2.2774	2.7392	2.30	2.80
TE,>200	6	3.1083	.11143	.04549	2.9914	3.2253	2.95	3.25
Total	36	3.5417	.97464	.16244	3.2119	3.8714	2.30	5.45

OHC

Duncan

kombinasi	N	Subset for alpha = .05	
		1	2
TE,100-200	6	2.5083	
TE,<100	6	2.5750	
TE,>200	6	3.1083	
E,100-200	6		4.3250
E,<100	6		4.3667
E,>200	6		4.3667
Sig.		.070	.898

Means for groups in homogeneous subsets are displayed.

a Uses Harmonic Mean Sample Size = 6.000.

5.2 One Way Anova Uji Kimia dan Fisik Abon

a. Uji Kimia

Descriptives

airabon

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Min	Max
					Lower Bound	Upper Bound		
E,<100,4%	6	6.4733	.10520	.04295	6.3629	6.5837	6.30	6.63
E,<100,8%	6	6.5050	.06716	.02742	6.4345	6.5755	6.40	6.60
E,<100,12%	6	6.6950	.13004	.05309	6.5585	6.8315	6.53	6.90
E,100-200,4%	6	6.2233	.21267	.08682	6.0002	6.4465	5.97	6.57
E,100-200,8%	6	6.3217	.05231	.02136	6.2668	6.3766	6.23	6.37
E,100-200,12%	6	6.4383	.03971	.01621	6.3967	6.4800	6.40	6.50
E,>200,4%	6	5.8517	.12687	.05180	5.7185	5.9848	5.63	5.97
E,>200,8%	6	6.0383	.07441	.03038	5.9602	6.1164	5.97	6.13
E,>200,12%	6	6.4717	.07985	.03260	6.3879	6.5555	6.40	6.60
TE,<100,4%	6	5.3167	.16488	.06731	5.1436	5.4897	5.03	5.50
TE,<100,8%	6	5.4183	.24677	.10074	5.1594	5.6773	5.10	5.67
TE,<100,12%	6	5.5950	.18684	.07628	5.3989	5.7911	5.40	5.90
TE,100-200,4%	6	4.9267	.11431	.04667	4.8067	5.0466	4.83	5.10
TE,100-200,8%	6	5.1017	.19219	.07846	4.9000	5.3034	4.87	5.30
TE,100-200,12%	6	5.2450	.05718	.02335	5.1850	5.3050	5.17	5.33
TE,>200,4%	6	4.7550	.25790	.10529	4.4844	5.0256	4.50	5.00
TE,>200,8%	6	4.7833	.09585	.03913	4.6827	4.8839	4.70	4.93
TE,>200,12%	6	5.0950	.02258	.00922	5.0713	5.1187	5.07	5.13
kontrol	6	4.2450	.18141	.07406	4.0546	4.4354	4.00	4.40
Total	114	5.6579	.73185	.06854	5.5221	5.7937	4.00	6.90

airabon

Duncan

kombinasi	N	Subset for alpha = .05													
		1	2	3	4	5	6	7	8	9	10				
kontrol	6	4.2450													
TE,>200,4%	6		4.7550												
TE,>200,8%	6		4.7833												
TE,100-200,4%	6		4.9267												
TE,>200,12%	6			5.0950											
TE,100-200,8%	6			5.1017											
TE,100-200,12%	6			5.2450	5.2450										
TE,<100,4%	6				5.3167										
TE,<100,8%	6				5.4183										
TE,<100,12%	6					5.5950									
E,>200,4%	6						5.8517								
E,>200,8%	6							6.0383							
E,100-200,4%	6								6.2233						
E,100-200,8%	6								6.3217	6.3217					
E,100-200,12%	6										6.4383				
E,>200,12%	6										6.4717				
E,<100,4%	6										6.4733				
E,<100,8%	6										6.5050				
E,<100,12%	6											6.6950			
Sig.		1.000	.053	.092	.051	1.000	1.000	1.000	.241	.051	1.000				

Means for groups in homogeneous subsets are displayed.

a Uses Harmonic Mean Sample Size = 6.000.

Descriptives

abu

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Min	Max
					Lower Bound	Upper Bound		
					E,<100,4%	6		
E,<100,8%	6	5.3833	.56627	.23118	4.7891	5.9776	4.80	6.05
E,<100,12%	6	4.3167	.43205	.17638	3.8633	4.7701	3.75	4.85
E,100-200,4%	6	6.1667	.26771	.10929	5.8857	6.4476	5.80	6.50
E,100-200,8%	6	5.0333	.41793	.17062	4.5947	5.4719	4.55	5.60
E,100-200,12%	6	4.9667	.22286	.09098	4.7328	5.2005	4.55	5.15
E,>200,4%	6	4.9667	.45019	.18379	4.4942	5.4391	4.40	5.60
E,>200,8%	6	4.3250	.44805	.18292	3.8548	4.7952	3.65	4.90
E,>200,12%	6	4.7750	.57598	.23514	4.1705	5.3795	4.10	5.45
TE,<100,4%	6	5.7583	.49640	.20266	5.2374	6.2793	5.30	6.60
TE,<100,8%	6	6.0583	.55805	.22782	5.4727	6.6440	5.15	6.80
TE,<100,12%	6	5.9583	.47055	.19210	5.4645	6.4521	5.45	6.65
TE,100-200,4%	6	5.8917	.30400	.12411	5.5726	6.2107	5.45	6.25
TE,100-200,8%	6	5.3667	.24221	.09888	5.1125	5.6209	5.05	5.60
TE,100-200,12%	6	5.3750	.56811	.23193	4.7788	5.9712	4.45	5.95
TE,>200,4%	6	6.1167	.23166	.09458	5.8736	6.3598	5.90	6.45
TE,>200,8%	6	5.9750	.36844	.15042	5.5883	6.3617	5.35	6.45
TE,>200,12%	6	5.8917	.51809	.21151	5.3480	6.4354	5.40	6.50
kontrol	6	5.8583	.39927	.16300	5.4393	6.2773	5.50	6.35
Total	114	5.4833	.71658	.06711	5.3504	5.6163	3.65	6.80

abu

Duncan

kombinasi	N	Subset for alpha = .05					
		1	2	3	4	5	6
E,<100,12%	6	4.3167					
E,>200,8%	6	4.3250					
E,>200,12%	6	4.7750	4.7750				
E,100-200,12%	6		4.9667	4.9667			
E,>200,4%	6		4.9667	4.9667			
E,100-200,8%	6		5.0333	5.0333			
TE,100-200,8%	6			5.3667	5.3667		
TE,100-200,12%	6			5.3750	5.3750		
E,<100,8%	6			5.3833	5.3833	5.3833	
TE,<100,4%	6				5.7583	5.7583	5.7583
kontrol	6				5.8583	5.8583	5.8583
TE,100-200,4%	6				5.8917	5.8917	5.8917
TE,>200,12%	6				5.8917	5.8917	5.8917
TE,<100,12%	6				5.9583	5.9583	5.9583
TE,>200,8%	6					5.9750	5.9750
E,<100,4%	6						6.0000
TE,<100,8%	6						6.0583
TE,>200,4%	6						6.1167
E,100-200,4%	6						6.1667
Sig.		.099	.373	.167	.053	.050	.196

Means for groups in homogeneous subsets are displayed.

a Uses Harmonic Mean Sample Size = 6.000.

Descriptives

lemak

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Min	Max
					Lower Bound	Upper Bound		
					E,<100,4%	6		
E,<100,8%	6	25.1750	.76860	.31378	24.3684	25.9816	24.20	26.10
E,<100,12%	6	24.4250	1.12417	.45894	23.2453	25.6047	23.10	25.95
E,100-200,4%	6	28.9417	.93135	.38022	27.9643	29.9191	28.00	30.60
E,100-200,8%	6	28.7250	.97352	.39744	27.7033	29.7467	27.20	29.90
E,100-200,12%	6	27.7183	1.84212	.75204	25.7851	29.6515	24.45	29.90
E,>200,4%	6	28.9000	.58822	.24014	28.2827	29.5173	28.00	29.75
E,>200,8%	6	26.7083	1.04519	.42670	25.6115	27.8052	25.35	28.20
E,>200,12%	6	25.4667	.26583	.10853	25.1877	25.7456	25.05	25.85
TE,<100,4%	6	28.7200	1.17567	.47997	27.4862	29.9538	27.15	29.90
TE,<100,8%	6	26.2967	.73107	.29846	25.5295	27.0639	24.90	26.90
TE,<100,12%	6	25.6967	.70446	.28760	24.9574	26.4360	24.50	26.40
TE,100-200,4%	6	28.2333	.40947	.16717	27.8036	28.6630	27.80	28.85
TE,100-200,8%	6	26.6750	.61543	.25125	26.0291	27.3209	25.50	27.15
TE,100-200,12%	6	26.1100	.10770	.04397	25.9970	26.2230	25.95	26.20
TE,>200,4%	6	28.4833	.28752	.11738	28.1816	28.7851	28.15	28.90
TE,>200,8%	6	27.4267	.62902	.25680	26.7666	28.0868	26.70	28.25
TE,>200,12%	6	26.3583	.85873	.35057	25.4572	27.2595	25.50	27.80
kontrol	6	31.3417	1.67285	.68294	29.5861	33.0972	28.75	33.10
Total	114	27.3095	1.85170	.17343	26.9659	27.6531	23.10	33.10

lemak

Duncan

kombinasi	N	Subset for alpha = .05								
		1	2	3	4	5	6	7	8	9
E,<100,12%	6	24.425								
E,<100,8%	6	25.175	25.175							
E,>200,12%	6	25.467	25.467							
TE,<100,12%	6		25.697	25.697						
TE,100-200,12%	6		26.110	26.110						
TE,<100,8%	6		26.297	26.297	26.297					
TE,>200,12%	6		26.358	26.358	26.358					
TE,100-200,8%	6			26.675	26.675	26.675				
E,>200,8%	6			26.708	26.708	26.708				
TE,>200,8%	6				27.427	27.427	27.427			
E,<100,4%	6				27.478	27.478	27.478			
E,100-200,12%	6					27.718	27.718	27.718		
TE,100-200,4%	6						28.233	28.233	28.233	
TE,>200,4%	6						28.483	28.483	28.483	
TE,<100,4%	6							28.720	28.720	
E,100-200,8%	6							28.725	28.725	
E,>200,4%	6							28.900	28.900	
E,100-200,4%	6								28.942	
kontrol	6									31.3417
Sig.		.069	.055	.103	.055	.086	.082	.055	.257	1.000

Means for groups in homogeneous subsets are displayed.

a Uses Harmonic Mean Sample Size = 6.000.

Descriptives

protein

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Min	Max
					Lower Bound	Upper Bound		
E,<100, 4%	6	31,4467	1,61324	,65860	29,7537	33,1397	28,64	32,98
E,<100, 8%	6	31,0633	,67132	,27406	30,3588	31,7678	29,94	31,63
E,<100, 12%	6	28,5000	1,05643	,43128	27,3913	29,6087	27,26	29,49
E,100-200, 4%	6	29,8183	1,11083	,45349	28,6526	30,9841	28,39	31,11
E,100-200, 8%	6	29,7617	,48355	,19741	29,2542	30,2691	29,04	30,33
E,100-200, 12%	6	29,3117	3,33643	1,36209	25,8103	32,8130	26,02	34,25
E,>200,4%	6	35,4183	3,41986	1,39615	31,8294	39,0073	31,78	39,20
E,>200, 8%	6	30,7600	,45303	,18495	30,2846	31,2354	30,13	31,39
E,>200, 12%	6	20,4683	1,93061	,78817	18,4423	22,4944	18,08	22,70
TE, <100, 4%	6	36,6617	2,48981	1,01646	34,0488	39,2746	34,03	40,25
TE,<100, 8%	6	36,6183	3,54257	1,44625	32,9006	40,3360	32,74	40,84
TE,<100,12%	6	35,7217	3,29076	1,34345	32,2682	39,1751	32,63	39,92
TE,100-200,4%	6	40,6267	3,60520	1,47182	36,8432	44,4101	36,45	45,89
TE,100-200,8%	6	35,3500	4,49691	1,83586	30,6308	40,0692	30,06	40,67
TE,100-200,12%	6	33,9383	4,54825	1,85682	29,1652	38,7114	29,66	39,85
TE,>200,4%	6	36,1600	3,15002	1,28599	32,8543	39,4657	32,77	39,33
TE,>200, 8%	6	35,1067	4,33054	1,76793	30,5620	39,6513	30,85	39,85
TE,>200, 12%	6	28,3833	1,78741	,72971	26,5076	30,2591	25,72	30,67
kontrol	6	42,4117	4,66058	1,90267	37,5207	47,3026	38,04	47,78
Total	114	33,0277	5,60914	,52534	31,9869	34,0685	18,08	47,78

protein
Duncan

kombinasi	N	Subset for alpha = .05				
		1	2	3	4	5
E,>200, 12%	6	20,4683				
TE, >200, 12%	6		28,3833			
E,<100, 12%	6		28,5000			
E, 100-200, 12%	6		29,3117			
E, 100-200, 8%	6		29,7617			
E,100-200, 4%	6		29,8183			
E,>200, 8%	6		30,7600	30,7600		
E,<100, 8%	6		31,0633	31,0633		
E,<100, 4%	6		31,4467	31,4467		
TE, 100-200,12%	6			33,9383	33,9383	
TE,>200, 8%	6				35,1067	
TE,100-200,8%	6				35,3500	
E, >200,4%	6				35,4183	
TE, <100, 12%	6				35,7217	
TE, >200,4%	6				36,1600	
TE, <100, 8%	6				36,6183	
TE, <100, 4%	6				36,6617	
TE, 100-200,4%	6					40,6267
kontrol	6					42,4117
Sig.		1,000	,135	,095	,185	,303

Means for groups in homogeneous subsets are displayed.
a. Uses Harmonic Mean Sample Size = 6,000.

Descriptives

karbohidrat

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Min	Max
					Lower Bound	Upper Bound		
E,<100, 4%	6	27,7700	2,27505	,92878	25,3825	30,1575	25,60	31,79
E,<100, 8%	6	31,8750	,88138	,35982	30,9500	32,8000	30,40	32,82
E,<100, 12%	6	35,9000	2,30559	,94125	33,4804	38,3196	33,01	39,19
E,100-200, 4%	6	28,8517	2,02173	,82537	26,7300	30,9733	26,00	31,38
E,100-200, 8%	6	30,3233	1,03936	,42432	29,2326	31,4141	29,06	31,75
E,100-200, 12%	6	31,5633	4,00347	1,63441	27,3620	35,7647	27,01	37,27
E,>200,4%	6	24,8650	3,53262	1,44219	21,1577	28,5723	20,72	28,23
E,>200, 8%	6	32,3367	,69555	,28396	31,6067	33,0666	31,18	33,07
E,>200, 12%	6	42,8200	2,24390	,91607	40,4652	45,1748	40,12	45,48
TE, <100, 4%	6	23,5450	2,00857	,81999	21,4371	25,6529	19,75	25,24
TE,<100, 8%	6	25,6083	4,10054	1,67404	21,3051	29,9116	21,03	31,11
TE,<100,12%	6	27,0300	4,06479	1,65944	22,7643	31,2957	22,73	31,87
TE,100-200,4%	6	20,3167	3,80277	1,55247	16,3259	24,3074	14,47	24,45
TE,100-200,8%	6	27,5083	4,96708	2,02780	22,2957	32,7210	22,03	33,19
TE,100-200,12%	6	29,3300	4,60661	1,88064	24,4957	34,1643	23,13	33,60
TE,>200,4%	6	24,4850	3,03891	1,24063	21,2959	27,6741	21,00	27,63
TE,>200, 8%	6	26,7100	5,19096	2,11920	21,2624	32,1576	21,08	32,39
TE,>200, 12%	6	35,1067	3,92937	1,60416	30,9830	39,2303	30,54	41,82
kontrol	6	16,1433	3,63523	1,48408	12,3284	19,9583	11,02	19,54
Total	114	28,5310	6,55563	,61399	27,3145	29,7474	11,02	45,48

karbohidrat

Duncan

kombinasi	N	Subset for alpha = .05													
		1	2	3	4	5	6	7	8	9	10	11			
kontrol	6	16,1433													
TE ,100-200,4%	6		20,3167												
TE ,<100, 4%	6		23,5450	23,5450											
TE ,>200,4%	6			24,4850	24,4850										
E ,>200,4%	6			24,8650	24,8650										
TE ,<100, 8%	6			25,6083	25,6083	25,6083									
TE ,>200, 8%	6			26,7100	26,7100	26,7100	26,7100								
TE ,<100, 12%	6			27,0300	27,0300	27,0300	27,0300								
TE ,100-200,8%	6			27,5083	27,5083	27,5083	27,5083	27,5083							
E ,<100, 4%	6			27,7700	27,7700	27,7700	27,7700	27,7700							
E ,100-200,4%	6				28,8517	28,8517	28,8517	28,8517	28,8517						
TE ,100-200,12%	6					29,3300	29,3300	29,3300	29,3300						
E ,100-200, 8%	6						30,3233	30,3233	30,3233						
E ,100-200, 12%	6							31,5633	31,5633	31,5633					
E ,<100, 8%	6							31,8750	31,8750	31,8750	31,8750				
E ,>200, 8%	6								32,3367	32,3367	32,3367	32,3367			
TE ,>200, 12%	6									35,1067	35,1067	35,1067			
E ,<100, 12%	6										35,9000	35,9000			
E ,>200, 12%	6												42,8200		
Sig.		1,000	,098	,064	,055	,100	,111	,052	,119	,097	,059				1,000

Means for groups in homogeneous subsets are displayed.

a Uses Harmonic Mean Sample Size = 6,000.

b. Serat kasar dan serat pangan (ADF)

Descriptives

s.kasar

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Min	Max
					Lower Bound	Upper Bound		
					E ,<100,4%	6		
E ,<100,8%	6	17.4317	.90687	.37023	16.4800	18.3834	16.11	18.24
E ,<100,12%	6	20.6850	1.59225	.65003	19.0140	22.3560	18.91	23.05
E ,100-200,4%	6	11.1617	.87456	.35704	10.2439	12.0795	10.23	12.71
E ,100-200,8%	6	18.2200	.27568	.11255	17.9307	18.5093	17.79	18.57
E ,100-200,12%	6	21.0433	1.93568	.79024	19.0120	23.0747	18.69	22.97
E ,>200,4%	6	13.3467	.86816	.35443	12.4356	14.2577	12.03	14.75
E ,>200,8%	6	19.2433	1.32348	.54031	17.8544	20.6322	17.08	20.96
E ,>200,12%	6	22.6500	.55343	.22594	22.0692	23.2308	22.21	23.58
TE ,<100,4%	6	7.9333	.45373	.18523	7.4572	8.4095	7.21	8.60
TE ,<100,8%	6	8.9150	.94720	.38669	7.9210	9.9090	7.45	10.33
TE ,<100,12%	6	11.8833	.67331	.27488	11.1767	12.5899	11.28	13.14
TE ,100-200,4%	6	9.8567	.37093	.15143	9.4674	10.2459	9.24	10.25
TE ,100-200,8%	6	18.3167	.36517	.14908	17.9334	18.6999	17.90	18.72
TE ,100-200,12%	6	19.5767	.60252	.24598	18.9444	20.2090	18.63	20.12
TE ,>200,4%	6	6.0600	.46742	.19082	5.5695	6.5505	5.57	6.71
TE ,>200,8%	6	15.7333	.94140	.38432	14.7454	16.7213	14.15	17.04
TE ,>200,12%	6	20.6033	1.63044	.66563	18.8923	22.3144	19.07	22.96
kontrol	6	2.4400	.43694	.17838	1.9815	2.8985	1.96	3.24
Total	114	14.5598	5.76909	.54033	13.4893	15.6303	1.96	23.58

Kombinasi	N	Subset for alpha = .05												
		1	2	3	4	5	6	7	8	9	10	11	12	13
kontrol	6	2.440												
TE,>200,4%	6		6.060											
TE,<100,4%	6			7.933										
TE,<100,8%	6			8.915	8.915									
TE,100-200,4%	6				9.857									
E,100-200,4%	6					11.162								
E,<100,4%	6					11.537								
TE,<100,12%	6					11.883								
E,>200,4%	6						13.347							
TE,>200,8%	6							15.733						
E,<100,8%	6								17.432					
E,100-200,8%	6								18.220	18.220				
TE,100-200,8%	6								18.317	18.317				
E,>200,8%	6									19.243	19.243			
TE,100-200,12%	6									19.577	19.577			
TE,>200,12%	6										20.603	20.603		
E,<100,12%	6										20.685	20.685		
E,100-200,12%	6											21.043		
E,>200,12%	6													22.650
Sig.		1.000	1.000	.081	.094	.226	1.000	1.000	.137	.085	.550	.062	.461	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

Descriptives

ADFabon

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Min	Max
					Lower Bound	Upper Bound		
E,<100,4%	6	12.2000	1.34907	.55076	10.7842	13.6158	10.20	13.60
E,<100,8%	6	16.6167	1.34077	.54737	15.2096	18.0237	14.30	17.60
E,<100,12%	6	19.7333	1.08012	.44096	18.5998	20.8669	18.30	21.30
E,100-200,4%	6	15.4500	1.19457	.48768	14.1964	16.7036	13.90	16.80
E,100-200,8%	6	20.2333	.65320	.26667	19.5478	20.9188	19.40	20.90
E,100-200,12%	6	21.1667	.30111	.12293	20.8507	21.4827	20.80	21.50
E,>200,4%	6	15.8333	.61210	.24989	15.1910	16.4757	15.00	16.60
E,>200,8%	6	28.1667	.54283	.22161	27.5970	28.7363	27.30	28.70
E,>200,12%	6	29.8500	1.20457	.49177	28.5859	31.1141	28.50	31.70
TE,<100,4%	6	13.2667	.24221	.09888	13.0125	13.5209	12.90	13.60
TE,<100,8%	6	16.5417	.47373	.19340	16.0445	17.0388	15.70	16.90
TE,<100,12%	6	18.6833	.66758	.27254	17.9827	19.3839	17.90	19.60
TE,100-200,4%	6	10.0667	.48028	.19607	9.5626	10.5707	9.20	10.60
TE,100-200,8%	6	15.9833	.51153	.20883	15.4465	16.5202	15.30	16.70
TE,100-200,12%	6	17.7333	1.10393	.45068	16.5748	18.8918	16.30	19.20
TE,>200,4%	6	7.6333	.69186	.28245	6.9073	8.3594	7.00	8.50
TE,>200,8%	6	12.1500	.90056	.36765	11.2049	13.0951	11.20	13.30
TE,>200,12%	6	18.2833	.44008	.17966	17.8215	18.7452	17.80	18.80
kontrol	6	7.3500	.30166	.12315	7.0334	7.6666	7.00	7.70
Total	114	16.6811	5.79972	.54319	15.6050	17.7573	7.00	31.70

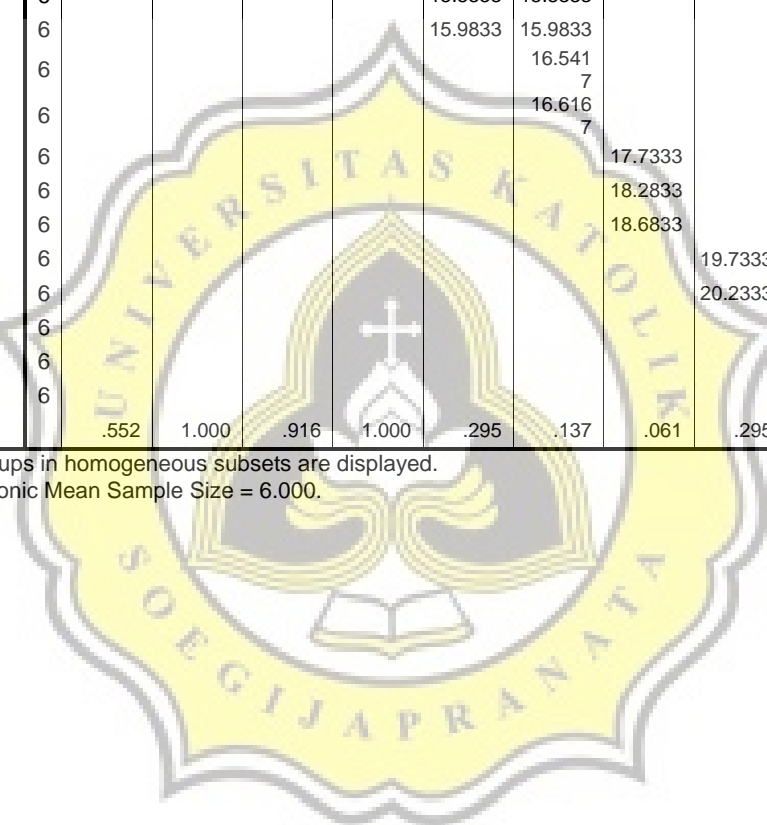
ADFabon

Duncan

kombinasi	N	Subset for alpha = .05												
		1	2	3	4	5	6	7	8	9	10	11		
kontrol	6	7.3500												
TE,>200,4%	6	7.6333												
TE,100-200,4%	6		10.0667											
TE,>200,8%	6			12.1500										
E,<100,4%	6			12.2000										
TE,<100,4%	6				13.2667									
E,100-200,4%	6					15.4500								
E,>200,4%	6					15.8333	15.8333							
TE,100-200,8%	6					15.9833	15.9833							
TE,<100,8%	6						16.5417							
E,<100,8%	6						16.6167							
TE,100-200,12%	6							17.7333						
TE,>200,12%	6							18.2833						
TE,<100,12%	6							18.6833						
E,<100,12%	6								19.7333					
E,100-200,8%	6								20.2333	20.2333				
E,100-200,12%	6									21.1667				
E,>200,8%	6										28.1667			
E,>200,12%	6											28.1667		
Sig.		.552	1.000	.916	1.000	.295	.137	.061	.295	.052	1.000	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a Uses Harmonic Mean Sample Size = 6.000.



c. WHC-OHC

deskriptif

WHC

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
kontrol	6	2,1500	,06325	,02582	2,0836	2,2164	2,10	2,25
TE,<100,4%	6	3,0000	,11402	,04655	2,8803	3,1197	2,85	3,15
TE,<100,8%	6	3,3167	,19664	,08028	3,1103	3,5230	3,10	3,55
TE,<100,12%	6	3,4333	,04082	,01667	3,3905	3,4762	3,40	3,50
TE,100-200,4%	6	2,7083	,04916	,02007	2,6567	2,7599	2,65	2,80
TE,100-200,8%	6	2,7333	,09832	,04014	2,6302	2,8365	2,60	2,90
TE,100-200,12%	6	3,3833	,12111	,04944	3,2562	3,5104	3,20	3,55
TE,>200,4%	6	1,9417	,04916	,02007	1,8901	1,9933	1,90	2,00
TE,>200,8%	6	2,3000	,10488	,04282	2,1899	2,4101	2,15	2,40
TE,>200,12%	6	2,9417	,05845	,02386	2,8803	3,0030	2,90	3,05
E,<100,4%	6	3,7750	,12145	,04958	3,6475	3,9025	3,65	3,95
E,<100,8%	6	4,2333	,18886	,07710	4,0351	4,4315	4,00	4,45
E,<100,12%	6	4,4500	,22136	,09037	4,2177	4,6823	4,05	4,65
E,100-200,4%	6	3,7250	,18371	,07500	3,5322	3,9178	3,45	3,90
E,100-200,8%	6	4,0833	,14376	,05869	3,9325	4,2342	3,90	4,30
E,100-200,12%	6	4,3750	,18908	,07719	4,1766	4,5734	4,00	4,50
E,>200,4%	6	3,0333	,12517	,05110	2,9020	3,1647	2,90	3,20
E,>200,8%	6	3,4000	,29326	,11972	3,0922	3,7078	3,05	3,85
E>200,12%	6	3,5583	,10685	,04362	3,4462	3,6705	3,45	3,75
Total	114	3,2917	,72627	,06802	3,1569	3,4264	1,90	4,65

WHC

Duncan

kombinasi	N	Subset for alpha = .05										
		1	2	3	4	5	6	7	8	9	10	11
TE,>200,4%	6	1,9417										
kontrol	6		2,1500									
TE,>200,8%	6		2,3000									
TE,100-200,4%	6			2,7083								
TE,100-200,8%	6			2,7333								
TE,>200,12%	6				2,9417							
TE,<100,4%	6				3,0000							
E,>200,4%	6				3,0333							
TE,<100,8%	6					3,3167						
TE,100-200,12%	6					3,3833	3,3833					
E,>200,8%	6					3,4000	3,4000					
TE,<100,12%	6					3,4333	3,4333					
E>200,12%	6						3,5583	3,5583				
E,100-200,4%	6							3,7250	3,7250			
E,<100,4%	6								3,7750			
E,100-200,8%	6									4,0833		
E,<100,8%	6									4,2333	4,2333	
E,100-200,12%	6										4,3750	4,3750
E,<100,12%	6											4,4500
Sig.		1,000	,078	,767	,309	,212	,059	,051	,554	,078	,096	,375

Means for groups in homogeneous subsets are displayed.

a Uses Harmonic Mean Sample Size = 6,000.

Descriptives

OHC

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Min	Max
					Lower Bound	Upper Bound		
E,<100,4%	6	3.6667	.08165	.03333	3.5810	3.7524	3.55	3.75
E,<100,8%	6	4.6417	.04916	.02007	4.5901	4.6933	4.60	4.70
E,<100,12%	6	5.1250	.06892	.02814	5.0527	5.1973	5.00	5.20
E,100-200,4%	6	3.3417	.27279	.11137	3.0554	3.6279	3.00	3.70
E,100-200,8%	6	3.7750	.08216	.03354	3.6888	3.8612	3.65	3.85
E,100-200,12%	6	4.2750	.11292	.04610	4.1565	4.3935	4.10	4.45
E,>200,4%	6	3.1333	.07528	.03073	3.0543	3.2123	3.05	3.20
E,>200,8%	6	3.5333	.09832	.04014	3.4302	3.6365	3.45	3.65
E,>200,12%	6	3.8583	.07360	.03005	3.7811	3.9356	3.75	3.95
TE,<100,4%	6	4.1250	.05244	.02141	4.0700	4.1800	4.05	4.20
TE,<100,8%	6	4.1583	.15626	.06379	3.9944	4.3223	4.05	4.45
TE,<100,12%	6	4.3833	.35024	.14298	4.0158	4.7509	4.00	4.90
TE,100-200,4%	6	3.4417	.07360	.03005	3.3644	3.5189	3.35	3.55
TE,100-200,8%	6	3.8667	.23381	.09545	3.6213	4.1120	3.50	4.15
TE,100-200,12%	6	4.4583	.05845	.02386	4.3970	4.5197	4.35	4.50
TE,>200,4%	6	3.2417	.09174	.03745	3.1454	3.3379	3.10	3.35
TE,>200,8%	6	3.8917	.11583	.04729	3.7701	4.0132	3.70	4.05
TE,>200,12%	6	4.3167	.07528	.03073	4.2377	4.3957	4.25	4.45
kontrol	6	2.9500	.42190	.17224	2.5072	3.3928	2.40	3.30
Total	114	3.9044	.57081	.05346	3.7985	4.0103	2.40	5.20

OHC

Duncan

kombinasi	N	Subset for alpha = .05												
		1	2	3	4	5	6	7	8	9	10	11		
kontrol	6	2.9500												
E,>200,4%	6	3.1333	3.1333											
TE,>200,4%	6		3.2417	3.2417										
E,100-200,4%	6			3.3417	3.3417									
TE,100-200,4%	6			3.4417	3.4417									
E,>200,8%	6				3.5333	3.5333								
E,<100,4%	6					3.6667	3.6667							
E,100-200,8%	6						3.7750	3.7750						
E,>200,12%	6							3.8583	3.8583					
TE,100-200,8%	6							3.8667	3.8667					
TE,>200,8%	6								3.8917					
TE,<100,4%	6									4.1250				
TE,<100,8%	6									4.1583				
E,100-200,12%	6									4.2750	4.2750			
TE,>200,12%	6									4.3167	4.3167			
TE,<100,12%	6										4.3833			
TE,100-200,12%	6										4.4583	4.4583		
E,<100,8%	6											4.6417		
E,<100,12%	6												5.1250	
Sig.		.064	.272	.056	.067	.177	.064	.285	.076	.090	.064			1.000

Means for groups in homogeneous subsets are displayed.

a Uses Harmonic Mean Sample Size = 6.000.

d. Bulk density

Descriptives

bulk_density	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
kontrol	6	,1917	,01329	,00543	,1777	,2056	,18	,21
TE,<100,4%	6	,2933	,00516	,00211	,2879	,2988	,29	,30
TE,<100,8%	6	,3033	,01033	,00422	,2925	,3142	,29	,32
TE,<100,12%	6	,3200	,02098	,00856	,2980	,3420	,28	,34
TE,100-200,4%	6	,2417	,01329	,00543	,2277	,2556	,22	,26
TE,100-200,8%	6	,2717	,00983	,00401	,2613	,2820	,26	,28
TE,100-200,12%	6	,2717	,01941	,00792	,2513	,2920	,25	,30
TE,>200,4%	6	,2183	,02229	,00910	,1949	,2417	,20	,26
TE,>200,8%	6	,2483	,00753	,00307	,2404	,2562	,24	,26
TE,>200,12%	6	,2617	,00408	,00167	,2574	,2660	,26	,27
E,<100,4%	6	,3383	,01941	,00792	,3180	,3587	,31	,37
E,<100,8%	6	,3583	,00408	,00167	,3540	,3626	,35	,36
E,<100,12%	6	,3883	,00753	,00307	,3804	,3962	,38	,40
E,100-200,4%	6	,3567	,00516	,00211	,3512	,3621	,35	,36
E,100-200,8%	6	,3533	,01033	,00422	,3425	,3642	,34	,37
E,100-200,12%	6	,3700	,00000	,00000	,3700	,3700	,37	,37
E,>200,4%	6	,3183	,00408	,00167	,3140	,3226	,31	,32
E,>200,8%	6	,3350	,01049	,00428	,3240	,3460	,32	,35
E>200,12%	6	,3417	,00753	,00307	,3338	,3496	,33	,35
Total	114	,3043	,05495	,00515	,2941	,3145	,18	,40

Duncan		bulk_density												
kombinasi	N	Subset for alpha = .05												
		1	2	3	4	5	6	7	8	9	10	11	12	
kontrol	6	,1917												
TE,>200,4%	6		,2183											
TE,100-200,4%	6			,2417										
TE,>200,8%	6			,2483	,2483									
TE,>200,12%	6				,2617	,2617								
TE,100-200,8%	6					,2717								
TE,100-200,12%	6					,2717								
TE,<100,4%	6						,2933							
TE,<100,8%	6						,3033							
E,>200,4%	6							,3183						
TE,<100,12%	6							,3200						
E,>200,8%	6								,3350					
E,<100,4%	6								,3383					
E>200,12%	6								,3417	,3417				
E,100-200,8%	6									,3533	,3533			
E,100-200,4%	6										,3567	,3567		
E,<100,8%	6										,3583	,3583		
E,100-200,12%	6											,3700		
E,<100,12%	6													,3883
Sig.		1,000	1,000	,338	,057	,177	,152	,810	,370	,096	,501	,071		1,000

5.3 One Way Anova Umur Simpan TBA dan Kadar Air

Descriptives

ka

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
M0,TE,<100,4%	6	5,3167	,16488	,06731	5,1436	5,4897	5,03	5,50
M0,TE,<100,12%	6	5,5950	,18684	,07628	5,3989	5,7911	5,40	5,90
M0,TE,>200,4%	6	4,7550	,25790	,10529	4,4844	5,0256	4,50	5,00
M0,TE,>200,12%	6	5,0950	,02258	,00922	5,0713	5,1187	5,07	5,13
M0,E,<100,4%	6	6,4567	,03559	,01453	6,4193	6,4940	6,40	6,50
M0,E,<100,12%	6	6,6950	,13004	,05309	6,5585	6,8315	6,53	6,90
M0,E,>200,4%	6	5,8517	,12687	,05180	5,7185	5,9848	5,63	5,97
M0,E,>200,12%	6	6,4717	,07985	,03260	6,3879	6,5555	6,40	6,60
M0,kontrol	6	4,2450	,18141	,07406	4,0546	4,4354	4,00	4,40
Total	54	5,6091	,81098	,11036	5,3877	5,8304	4,00	6,90

ka

Duncan^a

kombinasi	N	Subset for alpha = .05							
		1	2	3	4	5	6	7	8
M0,kontrol	6	4,2450							
M0,TE,>200,4%	6		4,7550						
M0,TE,>200,12%	6			5,0950					
M0,TE,<100,4%	6				5,3167				
M0,TE,<100,12%	6					5,5950			
M0,E,>200,4%	6						5,8517		
M0,E,<100,4%	6							6,4567	
M0,E,>200,12%	6							6,4717	
M0,E,<100,12%	6								6,6950
Sig.		1,000	1,000	1,000	1,000	1,000	1,000	,863	1,000

Means for groups in homogeneous subsets are displayed.

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

Descriptives

ka

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
M1,TE,<100,4%	6	5,4767	,14109	,05760	5,3286	5,6247	5,28	5,62
M1,TE,<100,12%	6	5,8483	,13862	,05659	5,7029	5,9938	5,70	6,02
M1,TE,>200,4%	6	4,9650	,34361	,14028	4,6044	5,3256	4,66	5,40
M1,TE,>200,12%	6	5,2400	,09359	,03821	5,1418	5,3382	5,14	5,37
M1,E,<100,4%	6	6,6933	,20324	,08297	6,4800	6,9066	6,50	6,97
M1,E,<100,12%	6	6,7267	,14760	,06026	6,5718	6,8816	6,50	6,90
M1,E,>200,4%	6	5,9433	,18457	,07535	5,7496	6,1370	5,76	6,27
M1,E,>200,12%	6	6,5967	,06831	,02789	6,5250	6,6684	6,50	6,67
M1,kontrol	6	4,7450	,48099	,19636	4,2402	5,2498	4,27	5,43
Total	54	5,8039	,74923	,10196	5,5994	6,0084	4,27	6,97

ka

Duncan^a

kombinasi	N	Subset for alpha = .05			
		1	2	3	4
M1,kontrol	6	4,7450			
M1,TE,>200,4%	6	4,9650			
M1,TE,>200,12%	6		5,2400		
M1,TE,<100,4%	6		5,4767		
M1,TE,<100,12%	6			5,8483	
M1,E,>200,4%	6			5,9433	
M1,E,>200,12%	6				6,5967
M1,E,<100,4%	6				6,6933
M1,E,<100,12%	6				6,7267
Sig.		,113	,089	,488	,374

Means for groups in homogeneous subsets are displayed.

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

Descriptives

ka

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
M2,TE,<100,4%	6	6,3700	,21476	,08767	6,1446	6,5954	6,03	6,67
M2,TE,<100,12%	6	6,4700	,26863	,10967	6,1881	6,7519	6,17	6,80
M2,TE,>200,4%	6	6,2367	,06377	,02603	6,1697	6,3036	6,15	6,33
M2,TE,>200,12%	6	7,0967	,87997	,35925	6,1732	8,0201	6,03	8,01
M2,E,<100,4%	6	6,9417	,44269	,18073	6,4771	7,4062	6,57	7,75
M2,E,<100,12%	6	7,1550	,43821	,17890	6,6951	7,6149	6,47	7,67
M2,E,>200,4%	6	6,7633	,28835	,11772	6,4607	7,0659	6,27	7,01
M2,E,>200,12%	6	6,8550	,29978	,12239	6,5404	7,1696	6,47	7,15
M2,kontrol	6	6,1100	,26442	,10795	5,8325	6,3875	5,63	6,37
Total	54	6,6665	,52539	,07150	6,5231	6,8099	5,63	8,01

ka

Duncan^a

kombinasi	N	Subset for alpha = .05			
		1	2	3	4
M2,kontrol	6	6,1100			
M2,TE,>200,4%	6	6,2367			
M2,TE,<100,4%	6	6,3700	6,3700		
M2,TE,<100,12%	6	6,4700	6,4700	6,4700	
M2,E,>200,4%	6		6,7633	6,7633	6,7633
M2,E,>200,12%	6		6,8550	6,8550	6,8550
M2,E,<100,4%	6			6,9417	6,9417
M2,TE,>200,12%	6				7,0967
M2,E,<100,12%	6				7,1550
Sig.		,175	,068	,075	,149

Means for groups in homogeneous subsets are displayed.

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

Descriptives

ka

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
					M3,TE,<100,4%	6		
M3,TE,<100,12%	6	6,9617	,06242	,02548	6,8962	7,0272	6,85	7,02
M3,TE,>200,4%	6	8,8917	,47927	,19566	8,3887	9,3946	8,37	9,36
M3,TE,>200,12%	6	8,3717	,28951	,11819	8,0678	8,6755	8,02	8,67
M3,E,<100,4%	6	6,9650	,22643	,09244	6,7274	7,2026	6,81	7,39
M3,E,<100,12%	6	7,6083	,20124	,08216	7,3971	7,8195	7,24	7,79
M3,E,>200,4%	6	7,2667	,21144	,08632	7,0448	7,4886	7,00	7,62
M3,E,>200,12%	6	7,5217	,34342	,14020	7,1613	7,8821	7,00	7,85
M3,kontrol	6	6,1833	,10764	,04394	6,0704	6,2963	6,05	6,36
Total	54	7,3850	,83094	,11308	7,1582	7,6118	6,05	9,36

ka

Duncan^a

kombinasi	N	Subset for alpha = .05						
		1	2	3	4	5	6	7
M3,kontrol	6	6,1833						
M3,TE,<100,4%	6		6,6950					
M3,TE,<100,12%	6		6,9617	6,9617				
M3,E,<100,4%	6		6,9650	6,9650				
M3,E,>200,4%	6			7,2667	7,2667			
M3,E,>200,12%	6				7,5217	7,5217		
M3,E,<100,12%	6					7,6083		
M3,TE,>200,12%	6						8,3717	
M3,TE,>200,4%	6							8,8917
Sig.		1,000	,092	,058	,093	,563	1,000	1,000

Means for groups in homogeneous subsets are displayed.

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

Descriptives

ka

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
					M4,TE,<100,4%	6		
M4,TE,<100,12%	6	7,6667	,16931	,06912	7,4890	7,8443	7,51	7,95
M4,TE,>200,4%	6	9,0000	,69642	,28431	8,2692	9,7308	8,30	9,95
M4,TE,>200,12%	6	9,5250	,33405	,13638	9,1744	9,8756	9,00	10,01
M4,E,<100,4%	6	7,5667	,46920	,19155	7,0743	8,0591	7,06	8,00
M4,E,<100,12%	6	8,8767	,59355	,24232	8,2538	9,4996	8,20	9,55
M4,E,>200,4%	6	8,3817	,36548	,14921	7,9981	8,7652	8,02	8,99
M4,E,>200,12%	6	8,3383	,06306	,02574	8,2722	8,4045	8,25	8,42
M4,kontrol	6	7,2367	,18533	,07566	7,0422	7,4312	7,05	7,47
Total	54	8,1676	,91004	,12384	7,9192	8,4160	6,74	10,01

ka

Duncan^a

kombinasi	N	Subset for alpha = .05				
		1	2	3	4	5
M4,TE,<100,4%	6	6,9167				
M4,kontrol	6	7,2367	7,2367			
M4,E,<100,4%	6		7,5667			
M4,TE,<100,12%	6		7,6667			
M4,E,>200,12%	6			8,3383		
M4,E,>200,4%	6			8,3817		
M4,E,<100,12%	6				8,8767	
M4,TE,>200,4%	6				9,0000	
M4,TE,>200,12%	6					9,5250
Sig.		,165	,079	,849	,590	1,000

Means for groups in homogeneous subsets are displayed.

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

Descriptives

ka

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
M5,TE,<100,4%	6	7,5067	,35658	,14557	7,1325	7,8809	7,00	8,00
M5,TE,<100,12%	6	8,4667	,28197	,11511	8,1708	8,7626	8,20	8,80
M5,TE,>200,4%	6	9,3583	,14345	,05856	9,2078	9,5089	9,12	9,52
M5,TE,>200,12%	6	9,7983	,11856	,04840	9,6739	9,9228	9,65	9,95
M5,E,<100,4%	6	7,8817	,81131	,33121	7,0303	8,7331	7,10	8,95
M5,E,<100,12%	6	9,5850	,53680	,21915	9,0217	10,1483	9,01	10,19
M5,E,>200,4%	6	9,9200	,54148	,22106	9,3518	10,4882	9,21	10,58
M5,E,>200,12%	6	9,6133	,82055	,33499	8,7522	10,4745	9,05	10,95
M5,kontrol	6	8,7350	,60971	,24891	8,0951	9,3749	8,10	9,46
Total	54	8,9850	,96752	,13166	8,7209	9,2491	7,00	10,95

ka

Duncan^a

kombinasi	N	Subset for alpha = .05			
		1	2	3	4
M5,TE,<100,4%	6	7,5067			
M5,E,<100,4%	6	7,8817	7,8817		
M5,TE,<100,12%	6		8,4667	8,4667	
M5,kontrol	6			8,7350	
M5,TE,>200,4%	6				9,3583
M5,E,<100,12%	6				9,5850
M5,E,>200,12%	6				9,6133
M5,TE,>200,12%	6				9,7983
M5,E,>200,4%	6				9,9200
Sig.		,227	,062	,385	,108

Means for groups in homogeneous subsets are displayed.

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

Descriptives

TBA

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
M0,TE,<100,4%	6	,36907	,048974	,019993	,31767	,42046	,331	,449
M0,TE,<100,12%	6	,24712	,092408	,037725	,15014	,34409	,167	,396
M0,TE,>200,4%	6	,26820	,057217	,023359	,20815	,32825	,202	,344
M0,TE,>200,12%	6	,21542	,022387	,009139	,19192	,23891	,179	,246
M0,E,<100,4%	6	,45382	,030580	,012484	,42172	,48591	,405	,495
M0,E,<100,12%	6	,34657	,047645	,019451	,29657	,39657	,264	,402
M0,E,>200,4%	6	,47997	,060538	,024715	,41644	,54350	,431	,571
M0,E,>200,12%	6	,39533	,088882	,036286	,30206	,48861	,273	,477
M0,kontrol	6	,33580	,028986	,011834	,30538	,36622	,302	,381
Total	54	,34570	,101383	,013796	,31803	,37337	,167	,571

TBA

Duncan^a

kombinasi	N	Subset for alpha = .05			
		1	2	3	4
M0,TE,>200,12%	6	,21542			
M0,TE,<100,12%	6	,24712			
M0,TE,>200,4%	6	,26820			
M0,kontrol	6		,33580		
M0,E,<100,12%	6		,34657		
M0,TE,<100,4%	6		,36907		
M0,E,>200,12%	6		,39533	,39533	
M0,E,<100,4%	6			,45382	,45382
M0,E,>200,4%	6				,47997
Sig.		,144	,111	,088	,439

Means for groups in homogeneous subsets are displayed.

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

Descriptives

TBA

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
M1,TE,<100,4%	6	,45603	,042134	,017201	,41182	,50025	,417	,520
M1,TE,<100,12%	6	,39222	,125823	,051367	,26017	,52426	,236	,529
M1,TE,>200,4%	6	,42497	,061426	,025077	,36050	,48943	,363	,513
M1,TE,>200,12%	6	,34555	,018905	,007718	,32571	,36539	,317	,373
M1,E,<100,4%	6	,45813	,058168	,023747	,39709	,51918	,391	,526
M1,E,<100,12%	6	,38805	,027453	,011208	,35924	,41686	,339	,415
M1,E,>200,4%	6	,61490	,095328	,038917	,51486	,71494	,466	,701
M1,E,>200,12%	6	,51688	,025436	,010384	,49019	,54358	,492	,561
M1,kontrol	6	,45603	,042134	,017201	,41182	,50025	,417	,520
Total	54	,45031	,096154	,013085	,42406	,47655	,236	,701

TBA

Duncan^a

kombinasi	N	Subset for alpha = .05			
		1	2	3	4
M1,TE,>200,12%	6	,34555			
M1,E,<100,12%	6	,38805	,38805		
M1,TE,<100,12%	6	,39222	,39222		
M1,TE,>200,4%	6	,42497	,42497		
M1,TE,<100,4%	6		,45603	,45603	
M1,kontrol	6		,45603	,45603	
M1,E,<100,4%	6		,45813	,45813	
M1,E,>200,12%	6			,51688	
M1,E,>200,4%	6				,61490
Sig.		,056	,105	,143	1,000

Means for groups in homogeneous subsets are displayed.

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

Descriptives

TBA

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
M2,TE,<100,4%	6	,60217	,126909	,051811	,46898	,73535	,390	,725
M2,TE,<100,12%	6	,43470	,176728	,072149	,24924	,62016	,211	,685
M2,TE,>200,4%	6	,52818	,130878	,053431	,39084	,66553	,405	,665
M2,TE,>200,12%	6	,44252	,010840	,004425	,43114	,45389	,429	,456
M2,E,<100,4%	6	,53300	,041239	,016836	,48972	,57628	,477	,573
M2,E,<100,12%	6	,46020	,045007	,018374	,41297	,50743	,403	,504
M2,E,>200,4%	6	,69017	,067922	,027729	,61889	,76145	,614	,772
M2,E,>200,12%	6	,65700	,080378	,032814	,57265	,74135	,564	,755
M2,kontrol	6	,54197	,054464	,022235	,48481	,59912	,474	,599
Total	54	,54332	,123982	,016872	,50948	,57716	,211	,772

TBA

Duncan^a

kombinasi	N	Subset for alpha = .05			
		1	2	3	4
M2,TE,<100,12%	6	,43470			
M2,TE,>200,12%	6	,44252			
M2,E,<100,12%	6	,46020			
M2,TE,>200,4%	6	,52818	,52818		
M2,E,<100,4%	6	,53300	,53300		
M2,kontrol	6	,54197	,54197	,54197	
M2,TE,<100,4%	6		,60217	,60217	,60217
M2,E,>200,12%	6			,65700	,65700
M2,E,>200,4%	6				,69017
Sig.		,094	,230	,054	,139

Means for groups in homogeneous subsets are displayed.

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

Descriptives

TBA

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
M3,TE,<100,4%	6	,68237	,052488	,021428	,62728	,73745	,633	,764
M3,TE,<100,12%	6	,54758	,133484	,054495	,40750	,68767	,363	,758
M3,TE,>200,4%	6	,74607	,092953	,037948	,64852	,84362	,644	,859
M3,TE,>200,12%	6	,55457	,044281	,018078	,50810	,60104	,491	,622
M3,E,<100,4%	6	,57175	,051771	,021135	,51742	,62608	,517	,625
M3,E,<100,12%	6	,59878	,053929	,022016	,54219	,65538	,544	,683
M3,E,>200,4%	6	,75232	,011910	,004862	,73982	,76481	,732	,767
M3,E,>200,12%	6	,77363	,053430	,021813	,71756	,82970	,703	,856
M3,kontrol	6	,61775	,067146	,027412	,54728	,68822	,522	,697
Total	54	,64942	,107616	,014645	,62005	,67880	,363	,859

TBA

Duncan^a

kombinasi	N	Subset for alpha = .05			
		1	2	3	4
M3,TE,<100,12%	6	,54758			
M3,TE,>200,12%	6	,55457			
M3,E,<100,4%	6	,57175			
M3,E,<100,12%	6	,59878	,59878		
M3,kontrol	6	,61775	,61775		
M3,TE,<100,4%	6		,68237	,68237	
M3,TE,>200,4%	6			,74607	,74607
M3,E,>200,4%	6			,75232	,75232
M3,E,>200,12%	6				,77363
Sig.		,129	,056	,109	,527

Means for groups in homogeneous subsets are displayed.

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

Descriptives

TBA

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
M4,TE,<100,4%	6	,74492	,078046	,031862	,66301	,82682	,630	,860
M4,TE,<100,12%	6	,58917	,008059	,003290	,58071	,59762	,581	,604
M4,TE,>200,4%	6	,83043	,087828	,035856	,73826	,92260	,742	,968
M4,TE,>200,12%	6	,71423	,015855	,006473	,69759	,73087	,699	,739
M4,E,<100,4%	6	,76180	,038418	,015684	,72148	,80212	,718	,815
M4,E,<100,12%	6	,63985	,064074	,026158	,57261	,70709	,557	,714
M4,E,>200,4%	6	,84863	,086375	,035262	,75799	,93928	,720	,931
M4,E,>200,12%	6	,86800	,064048	,026148	,80079	,93521	,800	,975
M4,kontrol	6	,79075	,041873	,017095	,74681	,83469	,757	,849
Total	54	,75420	,105643	,014376	,72536	,78303	,557	,975

TBA

Duncan^a

kombinasi	N	Subset for alpha = .05					
		1	2	3	4	5	6
M4,TE,<100,12%	6	,58917					
M4,E,<100,12%	6	,63985					
M4,TE,>200,12%	6		,71423				
M4,TE,<100,4%	6		,74492	,74492			
M4,E,<100,4%	6		,76180	,76180	,76180		
M4,kontrol	6			,79075	,79075	,79075	
M4,TE,>200,4%	6				,83043	,83043	,83043
M4,E,>200,4%	6					,84863	,84863
M4,E,>200,12%	6						,86800
Sig.		,154	,206	,223	,069	,125	,318

Means for groups in homogeneous subsets are displayed.

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

Descriptives

TBA

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
M5,TE,<100,4%	6	,86280	,096838	,039534	,76118	,96442	,744	,987
M5,TE,<100,12%	6	,68628	,162661	,066406	,51558	,85699	,454	,846
M5,TE,>200,4%	6	,99633	,103948	,042437	,88725	1,10542	,840	1,115
M5,TE,>200,12%	6	,73645	,034920	,014256	,69980	,77310	,699	,798
M5,E,<100,4%	6	,88023	,075273	,030730	,80124	,95923	,783	,976
M5,E,<100,12%	6	,77673	,040628	,016586	,73410	,81937	,737	,846
M5,E,>200,4%	6	,95732	,045559	,018599	,90951	1,00513	,910	1,032
M5,E,>200,12%	6	,89857	,053403	,021802	,84252	,95461	,830	,981
M5,kontrol	6	1,01838	,054349	,022188	,96135	1,07542	,961	1,089
Total	54	,86812	,134323	,018279	,83146	,90479	,454	1,115

TBA

Duncan^a

kombinasi	N	Subset for alpha = .05				
		1	2	3	4	5
M5,TE,<100,12%	6	,68628				
M5,TE,>200,12%	6	,73645				
M5,E,<100,12%	6	,77673	,77673			
M5,TE,<100,4%	6		,86280	,86280		
M5,E,<100,4%	6			,88023		
M5,E,>200,12%	6			,89857	,89857	
M5,E,>200,4%	6			,95732	,95732	,95732
M5,TE,>200,4%	6				,99633	,99633
M5,kontrol	6					1,01838
Sig.		,083	,082	,079	,061	,240

Means for groups in homogeneous subsets are displayed.

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

Uji 3 way anova TBA minggu ke-0
Univariate Analysis of Variance

Between-Subjects Factors

		Value Label	N
metode	1	tanpa Ekstraksi	54
	2	Ekstraksi	54
	3	kontrol	6
ukuran_partikel	1	<100	36
	2	100-200	36
	3	>200	36
formulasi	4	kontrol	6
	1	4%	36
	2	8%	36
	3	12%	36
	4	k	6

Post Hoc Tests

metode

Homogeneous Subsets

tba

Duncan^{a,b,c}

metode	N	Subset		
		1	2	3
tanpa Ekstraksi	54	,28972		
kontrol	6		,33600	
Ekstraksi	54			,40770
Sig.		1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

Based on Type III Sum of Squares

The error term is Mean Square(Error) = ,003.

- Uses Harmonic Mean Sample Size = 14,727.
- The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.
- Alpha = ,05.

ukuran_partikel

Homogeneous Subsets

tba

Duncan^{a,b,c}

ukuran_partikel	N	Subset
		1
kontrol	6	,33600
>200	36	,34267
<100	36	,34481
100-200	36	,35867
Sig.		,324

Means for groups in homogeneous subsets are displayed.

Based on Type III Sum of Squares

The error term is Mean Square(Error) = ,003.

- Uses Harmonic Mean Sample Size = 16,000.
- The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.
- Alpha = ,05.

formulasi

Homogeneous Subsets

tba

Duncan^{a,b,c}

formulasi	N	Subset	
		1	2
12%	36	,31231	
k	6	,33600	
8%	36	,34394	
4%	36		,38989
Sig.		,151	1,000

Means for groups in homogeneous subsets are displayed.

Based on Type III Sum of Squares

The error term is Mean Square(Error) = ,003.

- Uses Harmonic Mean Sample Size = 16,000.
- The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.
- Alpha = ,05.

HASIL UJI ANOVA 3 ARAH

Between-Subjects Factors

		Value Label	N
perlakuan	1	Tanpa_ekstraksi	630
	2	Ekstraksi	630
	3	kontrol	70
ukuran_partikel	1	<100 mesh	420
	2	100-200 mesh	420
	3	>200 mesh	420
	4	kontrol	70
konsentrasi	1	4%	420
	2	8%	420
	3	12%	420
	4	kontrol	70

Post Hoc Tests

Perlakuan

Skor

Duncan

perlakuan	N	Subset		
		1	2	3
Tanpa_ekstraksi	630	5.06		
Ekstraksi	630		5.47	
kontrol	70			6.70
Sig.		1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed. Based on Type III Sum of Squares The error term is Mean Square(Error) = 1.954.

a Uses Harmonic Mean Sample Size = 171.818.

b The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.

c Alpha = ,05.

ukuran partikel

Skor

Duncan

Ukrn_partikel	N	Subset		
		1	2	3
>200 mesh	420	5.01		
100-200 mesh	420		5.37	
<100 mesh	420		5.41	
kontrol	70			6.70
Sig.		1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed. Based on Type III Sum of Squares The error term is Mean Square(Error) = 1.954.

a Uses Harmonic Mean Sample Size = 186.667.

b The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.

c Alpha = ,05.

konsentrasi

Skor

Duncan

formulas i	N	Subset		
		1	2	3
8%	420	4.95		
4%	420	4.96		
12%	420		5.88	
kontrol	70			6.70
Sig.		1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed. Based on Type III Sum of Squares The error term is Mean Square(Error) = 1.954.

a Uses Harmonic Mean Sample Size = 186.667.

b The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.

c Alpha = ,05.