

## LAMPIRAN 1 : FOTO-FOTO TEMPE HASIL PENELITIAN



Foto 1.1 : Tempe  $A_I = \text{Tempe } A_1B_1$   
 substrat : kedele  
 inokulum : UICC 116  
 fermentasi : 24 jam

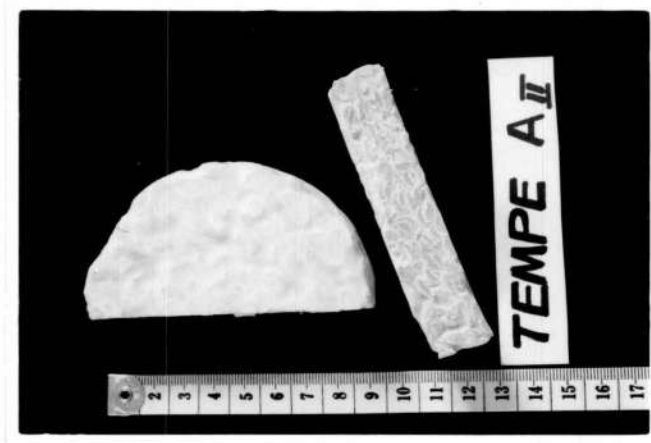


Foto 1.2 : Tempe  $A_{II} = \text{tempe } A_1B_2$   
 substrat : kedele  
 inokulum : UICC 128  
 fermentasi : 24 jam

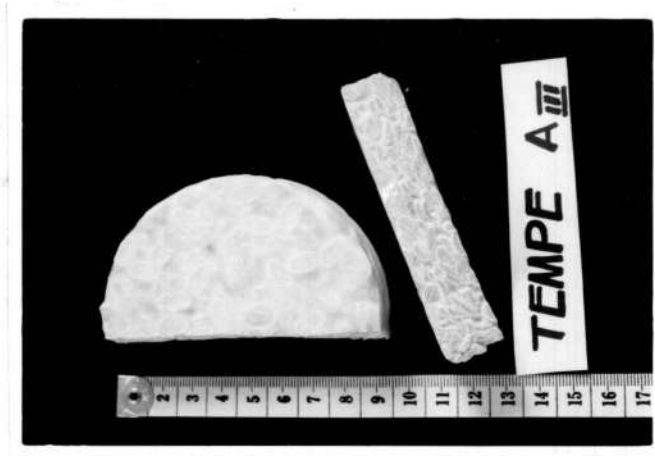


Foto 1.3 : Tempe  $A_{III}$  = Tempe  $A_1B_3$   
 substrat : kedele  
 inokulum : campuran UICC 116 + UICC 128  
 fermentasi : 24 jam

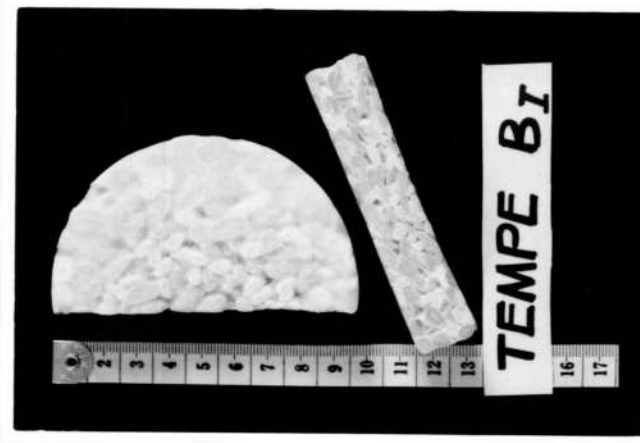


Foto 1.4 : Tempe  $B_I$  = Tempe  $A_2B_1$   
 substrat : campuran kedele-kacang hijau  
 (3:1)  
 inokulum : UICC 116  
 fermentasi : 24 jam

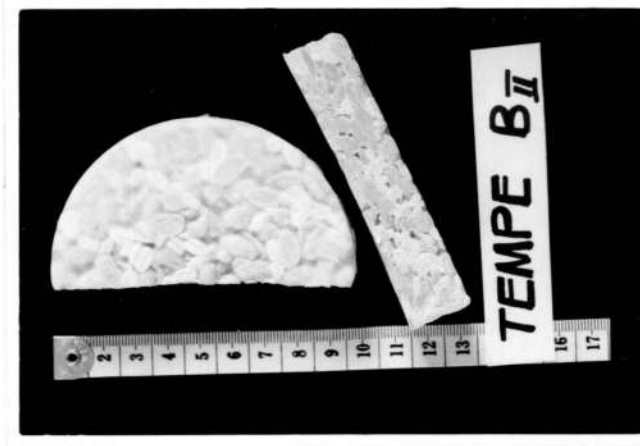


Foto 1.5 : Tempe B<sub>II</sub> = Tempe A<sub>2</sub>B<sub>2</sub>  
 substrat : campuran kedele-kacang hijau  
 (3:1)  
 inokulum : UICC 128  
 fermentasi : 24 jam



Foto 1.6 : Tempe B<sub>III</sub> = Tempe A<sub>2</sub>B<sub>3</sub>  
 substrat : campuran kedele-kacang  
 (3:1)  
 inokulum : UICC 116 + UICC 128  
 fermentasi : 24 jam

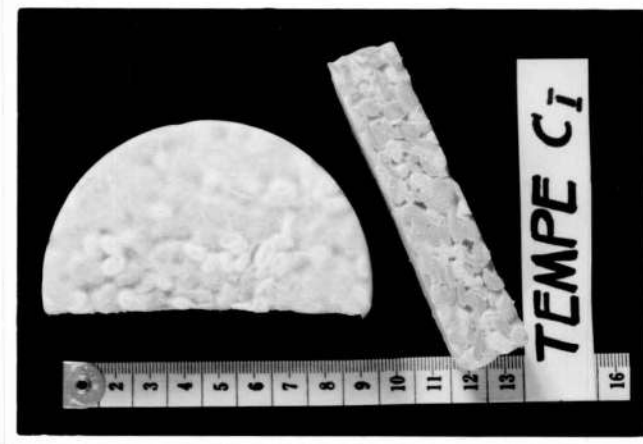


Foto 1.7 : Tempe  $C_I$  = Tempe  $A_3B_1$   
 substrat : campuran kedele-kacang hijau  
 (4:1)  
 inokulum : UICC 116  
 fermentasi : 24 jam



Foto 1.8 : Tempe  $C_{II}$  = Tempe  $A_3B_2$   
 substrat : campuran kedele-kacang hijau  
 (4:1)  
 inokulum : UICC 128  
 fermentasi : 24 jam



Foto 1.9 : Tempe  $C_{III}$  = Tempe  $A_3B_3$   
 substrat : campuran kedele-kacang hijau  
 (4:1)  
 inokulum : UICC 116 + UICC 128  
 fermentasi : 24 jam

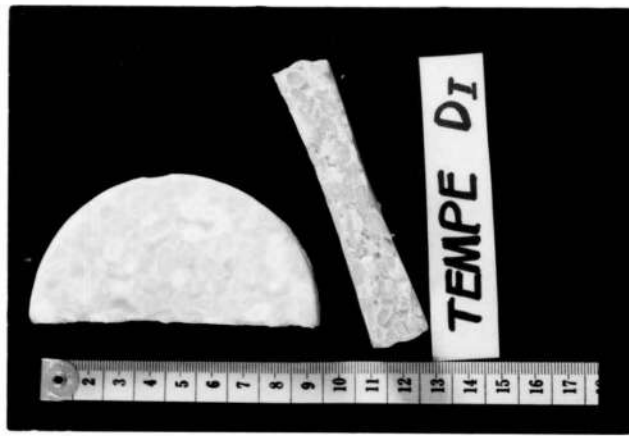


Foto 1.10 : Tempe  $D_I$  = Tempe  $A_4B_1$   
 substrat : campuran kedele-kacang hijau  
 (5:1)  
 inokulum : UICC 116  
 fermentasi : 24 jam

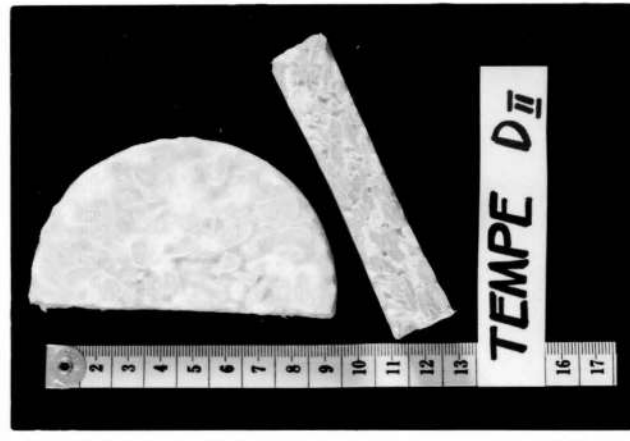


Foto 1.11 : Tempe  $D_{II}$  = Tempe  $A_4B_2$   
 substrat : campuran kedele-kacang hijau  
 (5:1)  
 inokulum : UICC 128  
 fermentasi : 24 jam



Foto 1.12 : Tempe  $D_{III}$  = Tempe  $A_4B_3$   
 substrat : campuran kedele-kacang hijau  
 (5:1)  
 inokulum : UICC 116 + UICC 128  
 fermentasi : 24 jam

## LAMPIRAN 2 : ANGKET UNTUK PANELIS TERLATIH

**PENILAIAN ORGANOLEPTIK TEMPE KEDELE**

No.	Kriteria dan Spesifikasi Mutu	Skor	TEMPE													
			A			B			C			D				
			I	II	III	I	II	III	I	II	III	I	II	III		
1	Warna tempe:															
	Putih	4														
	Putih agak abu-abu	3														
	Abu-abu	2														
2	Abu-abu agak hitam	1														
	Aroma tempe:															
	Aroma khas tempe sangat kuat	4														
	Aroma khas tempe sedang	3														
3	Aroma khas tempe kurang	2														
	Aroma khas tempe tidak ada	1														
	Tekstur tempe:															
	Sangat padat	4														
4	Cukup padat	3														
	Kurang padat	2														
	Tidak padat	1														
	Kekompakan/penggimbangan tempe:															
5	Permukaan irisan:															
	Sangat kompak	4														
	Cukup kompak	3														
	Kurang kompak	2														
6	Tidak kompak / buyar	1														
	Penampilan fisik tempe:															
	Sangat menarik	4														
	Cukup menarik	3														
7	Kurang menarik	2														
	Tidak menarik	1														
	Rasa tempe:															
	Sangat enak, gurih	4														
8	Enak	3														
	Kurang enak	2														
	Tidak enak	1														

Lanjutan

No.	Kriteria dan Spesifikasi Mutu	Skor	TEMPE														
			A			B			C			D					
			I	II	III	I	II	III	I	II	III	I	II	III			
7	Tingkat kesukaan: Sangat suka Suka Kurang suka Tidak suka	4 3 2 1															

Surabaya, ..... 19 .....

Panelis,

(.....)



LAMPIRAN 3 : ANGKET UNTUK KONSUMEN

ANGKET PENELITIAN

Silahkan Bapak/Ibu/Saudara mencicipi masing-masing tempe yang telah tersedia, kemudian berilah kesan terhadap masing-masing tempe tersebut sesuai dengan selera Bapak/Ibu/Saudara.

Mohon pertanyaan-pertanyaan di bawah ini dijawab dengan cara member tanda silang (X) pada tempat yang tersedia sesuai dengan pendapat Bapak/Ibu/Saudara.

=====

	T	E	M	P	E
	A	B	C	D	
Penampilan fisik					
sangat menarik					
cukup menarik					
kurang menarik					
tidak menarik					
R a s a					
sangat enak / gurih					
enak					
kurang enak					
tidak enak					
Tingkat kesukaan					
sangat suka					
suka					
kurang suka					
tidak suka					

Atas kesedian Bapak/Ibu/Saudara membantu kami memberi kesan terhadap tempe yang kami sediakan, kami mengucapkan banyak terima kasih.

Hormat kami,

Peneliti

Nama :

Jenis kelamin : Laki-laki / wanita

LAMPIRAN 4 : SYARAT-SYARAT PANELIS TERLATIH DI BALAI  
PENELITIAN DAN PENGEMBANGAN INDUSTRI  
SURABAYA

1. Mempunyai kepekaan dalam mengindra.
2. Mempunyai konsistensi yang tinggi.
3. Telah terlatih dalam mengenal sifat-sifat bahan,
4. Lulus seleksi uji kemampuan mencicipi dan penginderaan yang lainnya.

## LAMPIRAN 5 : DATA OPERASIONAL ALAT

## 1. Kromatografi gas

Model : HP 5890 series II  
 Kolom : capillary column OV [0]  
 Panjang kolom : 30 m  
 Diameter kolom : 0.32 mm  
 Ketebalan lapisan film : 0.1  $\mu$ m  
 Detektor : FID  
 Suhu detektor : 220<sup>o</sup>C  
 Suhu injektor : 210<sup>o</sup>C  
 Suhu oven : suhu program 150 -200<sup>o</sup>C  
                   initial time : 3 menit  
                   rate : 10<sup>o</sup>/menit  
 Final time : 10 menit  
 Gas pembawa : N<sub>2</sub>  
 Bahan metilasi : Boron trifluorida-metanol

## 2. Penganalisis asam amino otomatis

Model : Hitachi 835  
 Ukuran kolom : 4 x 150 mm  
 Waktu analisis : 53 menit  
 Tekanan kolom : 80 kg/cm  
 Kecepatan alir larutan buffer : 0.45 ml/menit

pH larutan buffer I	: 3.3
pH larutan buffer II	: 3.3
pH larutan buffer III	: 4.3
pH larutan buffer IV	: 4.9

### 3. Spektrofotometer serapan atom (penentuan Fe)

Model	: Beckman DB-G
Panjang gelombang	: 248,3 nm
Gas pembawa	: Asetilen
Suhu pembakar	: 2300 <sup>o</sup> C

### 4. Spektrofotometer sinar tampak

Model	: Spektronic 505
Panjang gelombang	: 482.5 nm (penentuan P)
Panjang gelombang	: 515 nm (penentuan vit.B <sub>1</sub> )

## LAMPIRAN 6 : CARA MENGHITUNG NPU DAN KECERNAAN

Binatang percobaan : tikus putih strain LMR (Lembaga Makanan Rakyat) asal Wistar

Umur : 30 ± 1 hari

Jenis kelamin : jantan atau betina

Lama percobaan : 10 hari

Akhir percobaan : tikus dibunuh, kemudian dikeringkan dalam oven pada temperatur 105°C sampai bobot konstan untuk menghitung kadar H<sub>2</sub>O.

## Cara Menghitung Kecernaan

$$D = \frac{N \text{ yang diabsorpsi}}{N \text{ yang dimakan}} = \frac{I - F - F_k}{I}$$

Keterangan :

D = kecernaan

I = jumlah N yang dimakan tikus dengan makanan percobaan

F = N tinja tikus dengan makan percobaan

F<sub>k</sub> = N tinja tikus metabolik (dari tinja tikus dengan makanan tanpa N)

## Cara Menghitung NPU

$$\text{NPU} = \frac{N \text{ yang ditahan tubuh}}{N \text{ yang dimakan}} = \frac{B - (B_k - I_k)}{I}$$

Keterangan :

B : N tubuh tikus dengan makan percobaan

I : jumlah N yang dimakan tikus dengan makanan percobaan

B<sub>k</sub> : N tubuh tikus dengan makanan tanpa protein

I<sub>k</sub> : jumlah N yang dimakan tikus dengan makanan tanpa protein

Cara menentukan N tubuh tikus :

$$Y = \frac{N \text{ (gram)}}{H_2O \text{ (gram)}} \times 100$$

$$\log (4.8 - Y) = 0.437 - 1.0123 X$$

X = umur tikus (hari)

## LAMPIRAN 7 : DATA HASIL PENELITIAN ZAT GIZI DALAM TEMPE

No	Kode Sampel	Protein g/100g	Lipid g/100g	Karbohidrat g/100g	Vitamin B <sub>1</sub> mcg/100g
1	A.I.0.1	36.680	21.046	28.443	30.240
2	A.I.0.2	36.750	20.905	28.225	30.070
3	A.II.0.1	36.870	20.950	28.329	30.150
4	A.II.0.2	36.590	20.722	28.212	30.240
5	A.III.0.1	37.010	20.819	28.726	30.070
6	A.III.0.1	36.570	20.945	28.274	29.980
7	B.I.0.1	31.020	15.605	40.430	60.310
8	B.I.0.2	30.770	16.021	40.740	59.930
9	B.II.0.1	30.710	16.095	40.996	60.400
10	B.II.0.2	30.840	15.930	40.143	60.220
11	B.III.0.1	30.750	15.917	40.600	60.200
12	B.III.0.2	30.820	15.866	40.741	60.440
13	C.I.0.1	32.670	16.958	37.634	55.620
14	C.I.0.2	32.310	16.777	37.786	55.960
15	C.II.0.1	32.570	16.860	37.539	55.550
16	C.II.0.2	32.460	17.098	37.755	56.010
17	C.III.0.1	32.540	16.823	37.518	56.100
18	C.III.0.2	32.510	16.873	37.819	55.580
19	D.I.0.1	35.560	18.924	32.719	44.030
20	D.I.0.2	35.680	19.146	32.486	44.600
21	D.II.0.1	35.810	19.046	32.754	44.170
22	D.II.0.2	35.570	18.924	32.587	44.960
23	D.III.0.1	35.670	18.904	32.494	44.440
24	D.III.0.2	35.900	18.902	32.649	44.100



No	Kode Sampel	Protein g/100g	Lipid g/100g	Karbohidrat g/100g	Vitamin B <sub>1</sub> mcg/100g
25	A.I.24.1	39.680	16.822	18.001	34.070
26	A.I.24.2	39.740	16.535	17.825	33.810
27	A.II.24.1	39.850	17.044	18.065	33.980
28	A.II.24.2	39.680	16.819	18.011	34.020
39	A.III.24.1	39.810	16.965	18.173	34.290
30	A.III.24.1	39.490	16.709	18.550	33.550
31	B.I.24.1	34.570	11.658	30.097	64.050
32	B.I.24.2	34.740	11.710	30.447	63.790
33	B.II.24.1	33.690	11.713	30.638	64.160
34	B.II.24.2	34.040	11.813	30.065	64.120
35	B.III.24.1	33.830	11.706	30.199	64.090
36	B.III.24.2	33.910	11.736	30.177	64.190
37	C.I.24.1	35.510	12.511	27.193	59.400
38	C.I.24.2	35.450	12.712	27.172	59.840
39	C.II.24.1	35.440	12.857	27.197	59.370
40	C.II.24.2	35.360	12.996	27.683	59.870
41	C.III.24.1	35.600	12.658	27.288	60.040
42	C.III.24.2	35.470	12.848	27.592	59.420
43	D.I.24.1	38.720	14.798	22.458	48.170
44	D.I.24.2	38.840	14.947	22.157	48.650
45	D.II.24.1	38.870	14.836	22.187	47.910
46	D.II.24.2	38.610	14.750	22.986	48.140
47	D.III.24.1	38.560	14.828	22.191	48.270
48	D.III.24.2	38.860	14.763	22.679	47.850

No	Kode Sampel	Besi mg/100g	Fosfor mg/100g	Serat g/100g	NPU	Kecernaan
1	A.I.0.1	9.835	592.470	8.550	47	75
2	A.I.0.2	9.725	592.638	8.100	48	77
3	A.II.0.1	9.519	592.549	8.250	47	75
4	A.II.0.2	9.602	592.489	8.200	49	76
5	A.III.0.1	9.721	592.357	8.050	47	77
6	A.III.0.1	9.147	592.581	8.300	47	75
7	B.I.0.1	8.474	525.867	6.000	46	67
8	B.I.0.2	8.026	525.410	5.950	44	66
9	B.II.0.1	8.214	525.797	5.710	44	66
10	B.II.0.2	8.307	525.857	6.060	45	67
11	B.III.0.1	8.214	525.872	5.900	45	65
12	B.III.0.2	8.294	525.617	6.200	46	67
13	C.I.0.1	8.929	542.314	6.500	47	72
14	C.I.0.2	8.919	541.910	6.730	45	70
15	C.II.0.1	8.992	541.982	6.300	45	71
16	C.II.0.2	9.049	542.167	6.500	47	72
17	C.III.0.1	8.804	542.202	6.200	45	70
18	C.III.0.2	8.904	541.968	6.600	47	72
19	D.I.0.1	9.433	552.339	6.900	50	74
20	D.I.0.2	9.205	552.513	6.700	48	74
21	D.II.0.1	9.218	552.667	6.830	49	75
22	D.II.0.2	9.273	552.218	7.360	48	73
23	D.III.0.1	9.418	552.128	7.000	48	73
24	D.III.0.2	9.177	552.651	6.800	49	75

No	Kode Sampel	Besi mg/100g	Fosfor mg/100g	Serat g/100g	NPU	Kecelakaan
25	A.1.24.1	9.791	592.396	11.850	52	83
26	A.1.24.2	9.648	592.613	11.400	54	84
27	A.11.24.1	9.484	592.689	11.620	52	84
28	A.11.24.2	9.933	592.449	11.630	53	85
39	A.111.24.1	9.680	592.562	11.370	53	83
30	A.111.24.1	9.136	592.446	11.510	54	84
31	B.1.24.1	8.422	525.950	9.400	48	74
32	B.1.24.2	8.053	525.648	9.300	48	73
33	B.11.24.1	8.206	525.954	9.954	49	74
34	B.11.24.2	8.297	526.017	9.420	50	74
35	B.111.24.1	8.181	526.052	9.360	49	72
36	B.111.24.2	8.239	525.815	9.660	50	74
37	C.1.24.1	8.693	542.472	9.850	52	79
38	C.1.24.2	8.822	542.176	9.930	51	78
39	C.11.24.1	8.703	542.045	9.650	51	78
40	C.11.24.2	8.947	542.202	9.850	52	79
41	C.111.24.1	8.799	542.397	9.650	50	78
42	C.111.24.2	8.869	542.246	9.910	52	79
43	D.1.24.1	9.375	552.351	10.458	53	83
44	D.1.24.2	9.107	552.573	10.100	52	82
45	D.11.24.1	9.169	552.610	10.110	54	84
46	D.11.24.2	9.169	552.398	10.690	52	82
47	D.111.24.1	9.403	552.239	10.460	52	53
48	D.111.24.2	9.096	552.699	10.240	53	84

No	Kode Sampel	Palmitat g/100g	Stearat g/100g	Oleat g/100g	Linoleat g/100g
1	A.I.O.1	1.990	0.760	4.750	10.800
2	A.I.O.2	1.940	0.780	4.780	10.990
3	A.II.O.1	1.990	0.920	4.810	10.900
4	A.II.O.2	1.920	0.730	4.830	10.930
5	A.III.O.1	1.940	0.730	4.730	10.880
6	A.III.O.1	1.970	0.760	4.980	10.830
7	B.I.O.1	1.720	0.590	3.930	7.610
8	B.I.O.2	1.700	0.570	3.970	7.700
9	B.II.O.1	1.680	0.570	3.950	7.710
10	B.II.O.2	1.700	0.560	3.960	7.720
11	B.III.O.1	1.730	0.580	3.970	7.610
12	B.III.O.2	1.720	0.570	3.960	7.710
13	C.I.O.1	1.790	0.600	4.320	8.300
14	C.I.O.2	1.760	0.610	4.310	8.370
15	C.II.O.1	1.570	0.600	4.340	8.420
16	C.II.O.2	1.820	0.590	4.390	8.340
17	C.III.O.1	1.770	0.610	4.370	8.280
18	C.III.O.2	1.830	0.620	4.350	8.380
19	D.I.O.1	1.890	0.670	4.750	9.910
20	D.I.O.2	1.940	0.690	4.770	9.930
21	D.II.O.1	1.920	0.720	4.790	9.870
22	D.II.O.2	1.940	0.660	4.730	9.940
23	D.III.O.1	1.900	0.740	4.790	9.940
24	D.III.O.2	1.920	0.670	4.780	9.920

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No	Kode Sampel	Palmitat g/100g	Stearat g/100g	Oleat g/100g	Linoleat g/100g
25	A. I. 24. 1	1.400	0.480	3.840	8.810
26	A. I. 24. 2	1.360	0.510	3.860	9.050
27	A. II. 24. 1	1.390	0.620	3.810	8.910
28	A. II. 24. 2	1.320	0.460	3.820	8.940
39	A. III. 24. 1	1.350	0.450	3.720	8.890
30	A. III. 24. 1	1.370	0.490	3.800	8.840
31	B. I. 24. 1	1.130	0.310	2.990	5.620
32	B. I. 24. 2	1.160	0.290	3.040	5.730
33	B. II. 24. 1	1.100	0.280	3.010	5.700
34	B. II. 24. 2	1.190	0.270	3.030	5.710
35	B. III. 24. 1	1.120	0.300	3.000	5.620
36	B. III. 24. 2	1.130	0.280	3.020	5.720
37	C. I. 24. 1	1.210	0.320	3.380	6.300
38	C. I. 24. 2	1.180	0.330	3.370	6.370
39	C. II. 24. 1	1.180	0.310	3.390	6.400
40	C. II. 24. 2	1.240	0.300	3.440	6.350
41	C. III. 24. 1	1.190	0.300	3.420	6.300
42	C. III. 24. 2	1.240	0.320	3.400	6.380
43	D. I. 24. 1	1.310	0.390	3.780	7.920
44	D. I. 24. 2	1.350	0.400	3.830	7.940
45	D. II. 24. 1	1.310	0.440	3.860	7.890
46	D. II. 24. 2	1.340	0.390	3.770	7.930
47	D. III. 24. 1	1.310	0.460	3.850	7.870
48	D. III. 24. 2	1.330	0.300	3.840	7.940

No	Kode Sampel	Treonin mg/100g	Luesin mg/100g	Isoleusin mg/100g	Valin mg/100g
1	A.I.O.1	1.378	2.783	1.736	1.711
2	A.I.O.2	1.362	2.775	1.741	1.709
3	A.II.O.1	1.369	2.785	1.734	1.708
4	A.II.O.2	1.368	2.792	1.748	1.713
5	A.III.O.1	1.371	2.784	1.736	1.706
6	A.III.O.1	1.379	2.776	1.746	1.716
7	B.I.O.1	878	2.549	1.439	1.280
8	B.I.O.2	884	2.551	1.425	1.274
9	B.II.O.1	875	2.569	1.444	1.269
10	B.II.O.2	885	2.557	1.434	1.277
11	B.III.O.1	876	2.551	1.442	1.266
12	B.III.O.2	880	2.552	1.435	1.278
13	C.I.O.1	949	2.613	1.526	1.396
14	C.I.O.2	938	2.606	1.527	1.387
15	C.II.O.1	932	2.604	1.531	1.393
16	C.II.O.2	938	2.615	1.524	1.388
17	C.III.O.1	936	2.608	1.522	1.397
18	C.III.O.2	934	2.604	1.535	1.386
19	D.I.O.1	1.283	2.753	1.680	1.613
20	D.I.O.2	1.294	2.748	1.673	1.606
21	D.II.O.1	1.280	2.750	1.670	1.613
22	D.II.O.2	1.288	2.753	1.684	1.606
23	D.III.O.1	1.286	2.748	1.691	1.613
24	D.III.O.2	1.286	2.755	1.669	1.609

No	Kode Sampel	Treonin mg/100g	Leusin mg/100g	Isoleusin mg/100g	Valin mg/100g
25	A.I.24.1	1.561	2.934	1.908	1.936
26	A.I.24.2	1.547	2.924	1.907	1.929
27	A.II.24.1	1.551	2.931	1.909	1.924
28	A.II.24.2	1.550	2.943	1.908	1.931
39	A.III.24.1	1.555	2.958	1.905	1.928
30	A.III.24.1	1.560	2.928	1.909	1.927
31	B.I.24.1	1.062	2.702	1.604	1.500
32	B.I.24.2	1.064	2.704	1.591	1.490
33	B.II.24.1	1.057	2.711	1.607	1.491
34	B.II.24.2	1.070	2.703	1.601	1.497
35	B.III.24.1	1.062	2.702	1.615	1.488
36	B.III.24.2	1.067	2.708	1.602	1.495
37	C.I.24.1	1.134	2.763	1.618	1.618
38	C.I.24.2	1.126	2.761	1.604	1.604
39	C.II.24.1	1.114	2.752	1.620	1.620
40	C.II.24.2	1.122	2.764	1.609	1.609
41	C.III.24.1	1.119	2.758	1.616	1.616
42	C.III.24.2	1.119	2.757	1.608	1.608
43	D.I.24.1	1.469	2.904	1.827	1.827
44	D.I.24.2	1.478	2.899	1.835	1.833
45	D.II.24.1	1.471	2.899	1.837	1.834
46	D.II.24.2	1.470	2.909	1.836	1.828
47	D.III.24.1	1.470	2.899	1.844	1.827
48	D.III.24.2	1.470	2.907	1.836	1.821

No	Kode Sampel	Lisin mg/100g	Metionin mg/100g	Fenilalanin mg/100g	Triptofan mg/100g
1	A.I.O.1	1.937	419	1.679	683
2	A.I.O.2	1.941	426	1.685	691
3	A.II.O.1	1.959	425	1.694	696
4	A.II.O.2	1.944	420	1.684	701
5	A.III.O.1	1.945	416	1.685	702
6	A.III.O.2	1.933	430	1.680	682
7	B.I.O.1	1.553	309	1.365	545
8	B.I.O.2	1.573	309	1.375	534
9	B.II.O.1	1.565	308	1.359	538
10	B.II.O.2	1.566	305	1.359	541
11	B.III.O.1	1.557	306	1.382	548
12	B.III.O.2	2.560	310	1.370	527
13	C.I.O.1	1.613	358	1.428	617
14	C.I.O.2	1.607	363	1.429	623
15	C.II.O.1	1.615	363	1.425	632
16	C.II.O.2	1.608	361	1.433	614
17	C.III.O.1	1.616	357	1.431	616
18	C.III.O.2	1.608	357	1.434	634
19	D.I.O.1	1.890	414	1.590	639
20	D.I.O.2	1.885	418	1.575	648
21	D.II.O.1	1.894	419	1.585	637
22	D.II.O.2	1.887	409	1.572	654
23	D.III.O.1	1.886	416	1.576	642
24	D.III.O.2	1.893	422	1.582	649



No	Kode Sampel	Lisin mg/100g	Metionin mg/100g	Fenilalanin mg/100g	Triptofan mg/100g
25	A.I.24.1	2.043	436	1.969	776
26	A.I.24.2	2.047	448	1.972	784
27	A.II.24.1	2.046	443	1.966	789
28	A.II.24.2	2.051	436	1.976	793
39	A.III.24.1	2.048	434	1.975	795
30	A.III.24.1	2.040	448	1.967	775
31	B.I.24.1	1.657	329	1.651	640
32	B.I.24.2	1.686	331	1.653	630
33	B.II.24.1	1.667	330	1.655	632
34	B.II.24.2	1.665	323	1.663	633
35	B.III.24.1	1.664	325	1.665	641
36	B.III.24.2	1.669	329	1.659	622
37	C.I.24.1	1.717	375	1.717	715
38	C.I.24.2	1.721	381	1.722	723
39	C.II.24.1	1.720	377	1.712	729
40	C.II.24.2	1.714	376	1.723	717
41	C.III.24.1	1.720	376	1.724	712
42	C.III.24.2	1.721	375	1.716	729
43	D.I.24.1	1.998	436	1.876	739
44	D.I.24.2	1.993	435	1.858	749
45	D.II.24.1	1.994	439	1.871	739
46	D.II.24.2	1.998	426	1.858	757
47	D.III.24.1	1.991	432	1.865	746
48	D.III.24.2	1.996	438	1.872	752

No	Kode Sampel	Glisin mg/100g	Alanin mg/100g	Aspartat mg/100g	Glutamat mg/100g	Prolin mg/100g
1	A.I.O.1	1.627	1.475	4.387	6.654	1.673
2	A.I.O.2	1.609	1.496	4.693	6.644	1.659
3	A.II.O.1	1.617	1.480	4.693	6.656	1.656
4	A.II.O.2	1.624	1.478	4.688	6.644	1.677
5	A.III.O.1	1.626	1.494	4.689	6.648	1.656
6	A.III.O.2	1.614	1.466	4.691	6.649	1.678
7	B.I.O.1	1.391	1.199	4.373	6.244	1.137
8	B.I.O.2	1.395	1.202	4.361	6.235	1.128
9	B.II.O.1	1.405	1.192	4.364	6.253	1.136
10	B.II.O.2	1.385	1.202	4.371	6.232	1.123
11	B.III.O.1	1.392	1.196	4.379	6.257	1.360
12	B.III.O.2	1.406	1.211	4.356	6.239	1.135
13	C.I.O.1	1.448	1.241	4.405	6.409	1.364
14	C.I.O.2	1.444	1.240	4.400	6.407	1.360
15	C.II.O.1	1.453	1.248	4.407	6.421	1.359
16	C.II.O.1	1.446	1.235	4.401	6.402	1.361
17	C.III.O.1	1.448	1.236	4.403	6.417	1.366
18	C.III.O.2	1.441	1.246	4.402	6.416	1.354
19	D.I.O.1	1.595	1.415	4.607	6.663	1.526
20	D.I.O.2	1.597	1.397	4.617	6.649	1.538
21	D.II.O.1	1.586	1.409	4.607	6.660	1.529
22	D.II.O.2	1.592	1.407	4.605	6.653	1.537
23	D.III.O.1	1.590	1.411	4.604	6.638	1.535
24	D.III.O.2	1.593	1.409	4.609	6.662	1.535

No	Kode Sampel	Glisin mg/100g	Alanin mg/100g	Aspartat mg/100g	Glutamat mg/100g	Prolin mg/100g
25	A.I.24.1	1.491	1.738	5.257	6.281	2.084
26	A.I.24.2	1.471	1.762	5.262	6.268	2.074
27	A.II.24.1	1.478	1.749	5.259	6.284	2.065
28	A.II.24.2	1.487	1.746	5.258	6.270	2.087
39	A.III.24.1	1.495	1.760	5.255	6.273	2.061
30	A.III.24.1	1.474	1.729	5.259	6.275	2.064
31	B.I.24.1	1.251	1.463	4.993	5.877	1.548
32	B.I.24.2	1.260	1.474	4.934	5.868	1.531
33	B.II.24.1	1.258	1.457	4.936	5.878	1.539
34	B.II.24.2	1.249	1.453	4.942	5.866	1.527
35	B.III.24.1	1.258	1.457	4.948	5.864	1.536
36	B.III.24.2	1.259	1.480	4.927	5.869	1.537
37	C.I.24.1	1.310	1.508	4.977	6.043	1.780
38	C.I.24.2	1.304	1.510	4.971	6.036	1.779
39	C.II.24.1	1.324	1.514	4.973	6.058	1.776
40	C.II.24.2	1.316	1.504	4.972	6.026	1.777
41	C.III.24.1	1.328	1.504	4.979	6.032	1.784
42	C.III.24.2	1.313	1.506	4.977	6.044	1.768
43	D.I.24.1	1.429	1.685	5.177	6.287	1.942
44	D.I.24.2	1.465	1.668	5.182	6.274	1.948
45	D.II.24.1	1.454	1.687	5.162	6.294	1.940
46	D.II.24.2	1.455	1.676	5.175	6.280	1.951
47	D.III.24.1	1.451	1.669	5.174	6.279	1.947
48	D.III.24.2	1.457	1.675	5.169	6.289	1.945

No	Kode Sampel	Sistein mg/100g	Tirosin mg/100g	Serin mg/100g	Histidin mg/100g	Arginin mg/100g
1	A.I.0.1	586	1.166	1.929	754	2.187
2	A.I.0.2	583	1.154	1.934	744	2.194
3	A.II.0.1	574	1.174	1.935	749	2.191
4	A.II.0.2	586	1.150	1.923	747	2.196
5	A.III.0.1	584	1.156	1.925	746	2.195
6	A.III.0.2	577	1.171	1.936	753	2.189
7	B.I.0.1	496	961	1.546	632	1.559
8	B.I.0.2	507	948	1.572	635	1.561
9	B.II.0.1	504	948	1.548	624	1.568
10	B.II.0.2	494	958	1.568	645	1.552
11	B.III.0.1	492	953	1.553	640	1.567
12	B.III.0.2	496	949	1.566	634	1.558
13	C.I.0.1	512	990	1.697	696	1.734
14	C.I.0.2	517	979	1.703	697	1.744
15	C.II.0.1	513	989	1.696	690	1.725
16	C.II.0.1	518	977	1.705	707	1.743
17	C.III.0.1	520	992	1.699	703	1.729
18	C.III.0.2	513	988	1.702	697	1.742
19	D.I.0.1	575	1.076	1.976	706	2.068
20	D.I.0.2	575	1.089	1.989	720	2.062
21	D.II.0.1	576	1.080	1.980	721	2.063
22	D.II.0.2	579	1.087	1.987	707	2.064
23	D.III.0.1	582	1.085	1.985	710	2.048
24	D.III.0.2	577	1.075	1.975	716	2.071

No	Kode Sampel	Sistein mg/100g	Tirosin mg/100g	Serin mg/100g	Histidin mg/100g	Arginin mg/100g
25	A.I.24.1	813	1.013	1.765	1.168	2.637
26	A.I.24.2	810	1.001	1.779	1.175	2.642
27	A.II.24.1	804	1.018	1.776	1.173	2.642
28	A.II.24.2	818	996	1.764	1.159	2.648
39	A.III.24.1	814	1.001	1.769	1.174	2.650
30	A.III.24.1	801	1.021	1.778	1.186	2.639
31	B.I.24.1	723	807	1.378	1.047	2.007
32	B.I.24.2	730	793	1.397	1.049	2.016
33	B.II.24.1	734	794	1.391	1.036	2.026
34	B.II.24.2	726	802	1.405	1.066	2.006
35	B.III.24.1	718	800	1.402	1.059	2.017
36	B.III.24.2	720	797	1.405	1.054	2.014
37	C.I.24.1	739	838	1.527	1.108	2.188
38	C.I.24.2	746	827	1.537	1.117	2.195
39	C.II.24.1	741	832	1.510	1.097	2.185
40	C.II.24.2	744	821	1.539	1.118	2.198
41	C.III.24.1	749	837	1.522	1.116	2.187
42	C.III.24.2	737	829	1.534	1.107	2.199
43	D.I.24.1	804	932	1.818	1.119	2.523
44	D.I.24.2	798	947	1.818	1.129	2.504
45	D.II.24.1	799	931	1.819	1.137	2.507
46	D.II.24.2	811	942	1.826	1.117	2.517
47	D.III.24.1	802	937	1.821	1.136	2.511
48	D.III.24.2	808	930	1.809	1.128	2.527

## LAMPIRAN 8 : HASIL ANALISIS DATA DENGAN SERI PROGRAM STATISTIK (SPS)

Paket : SPS (Seri Program Statistik)  
 Modul : Anava 6 (Pilihan)  
 Program : Analisis Variansi 3-Jalur (Anava ABC)  
 Edisi : Sutrisno Hadi dan Yuni Pawardiningasih  
 Universitas Gadjah Mada, Yogyakarta, Indonesia  
 Versi IBM/IN, Hak Cipta (c) 1997 Dilindungi UU

Nama Pemilik : Tjandra Pantjajani  
 Nama Lembaga : Universitas Airlangga  
 Alamat : Semolo Waru Bahari, Blok II/11, Surabaya  
 =====

Nama Peneliti : TJANDRA PANTJAJANI  
 Nama Lembaga : PASCASARJANA UNAIR  
 Tgl. Analisis : 05-23-1997  
 Nama Berkas : ANA-PLK

Nama Jalur A : JENIS SUBSTRAT  
 Nama Klasifikasi A1 : KEDELE  
 Nama Klasifikasi A2 : KEDELE + K. HIJAU (3 : 1)  
 Nama Klasifikasi A3 : KEDELE + K. HIJAU (4 : 1)  
 Nama Klasifikasi A4 : KEDELE + K. HIJAU (5 : 1)

Nama Jalur B : JENIS INOKULUM  
 Nama Klasifikasi B1 : UICC 116  
 Nama Klasifikasi B2 : UICC 128  
 Nama Klasifikasi B3 : UICC 116 + UICC 128

Nama Jalur C : FERMENTASI  
 Nama Klasifikasi C1 : 0 JAM  
 Nama Klasifikasi C2 : 24 JAM

Nama Variabel Terikat X1 : KADAR PROTEIN  
 Nama Variabel Terikat X2 : KADAR LIPID  
 Nama Variabel Terikat X3 : KADAR KARBOHIDRAT

Jalur A = Rekaman Nomor : 1  
 Jalur B = Rekaman Nomor : 2  
 Jalur C = Rekaman Nomor : 3

Variabel Terikat X1 = Rekaman Nomor : 4  
 Variabel Terikat X2 = Rekaman Nomor : 5  
 Variabel Terikat X3 = Rekaman Nomor : 6

Jumlah Kasus Semula : 48  
 Jumlah Data Hilang : 0  
 Jumlah Kasus Jalan : 48

\*\* TABEL RANGKUMAN ANALISIS VARIANSI 3-JALUR

Sumber Variabel	JK	db	RK	F	R <sup>2</sup>	p	
Antar A	X1	264.948	3	88.316	2,695.065	0.701	0.000
	X2	180.847	3	60.282	3,655.820	0.467	0.000
	X3	1,049.872	3	349.957	6,467.946	0.454	0.000
Antar B	X1	0.050	2	0.025	0.770	0.000	0.522
	X2	0.070	2	0.035	2.121	0.000	0.140
	X3	0.180	2	0.090	1.664	0.000	0.209
Antar C	X1	111.599	1	111.599	3,405.586	0.295	0.000
	X2	205.522	1	205.522	12,463.850	0.531	0.000
	X3	1,261.674	1	1,261.674	23,318.380	0.545	0.000
Inter AB	X1	0.252	6	0.042	1.280	0.001	0.303
	X2	0.095	6	0.016	0.956	0.000	0.524
	X3	0.371	6	0.062	1.142	0.000	0.369
Inter AC	X1	0.141	3	0.047	1.439	0.000	0.256
	X2	0.016	3	0.005	0.329	0.000	0.806
	X3	0.247	3	0.082	1.524	0.000	0.233
Inter BC	X1	0.082	2	0.041	1.255	0.000	0.303
	X2	0.032	2	0.016	0.962	0.000	0.601
	X3	0.241	2	0.120	2.223	0.000	0.129
Inter ABC	X1	0.090	6	0.015	0.459	0.000	0.832
	X2	0.082	6	0.014	0.825	0.000	0.563
	X3	0.168	6	0.028	0.518	0.000	0.790
Galat	X1	0.786	24	0.033	--	--	--
	X2	0.396	24	0.016	--	--	--
	X3	1.299	24	0.054	--	--	--
Total	X1	377.949	47	--	--	--	--
	X2	387.060	47	--	--	--	--
	X3	2,314.051	47	--	--	--	--

\*\* TABEL STATISTIK INDUK

Sumber	Variabel	n	EX	EX <sup>2</sup>	Rerata	SB
A1	X1	12	458.720	17,561.910	38.227	1.554
	X2	12	226.281	4,317.146	18.857	2.137
	X3	12	278.362	6,778.285	23.197	5.403
A2	X1	12	389.190	12,654.400	32.433	1.706
	X2	12	165.771	2,342.654	13.814	2.188
	X3	12	425.273	15,392.730	35.439	5.405
A3	X1	12	407.890	13,890.940	33.991	1.550
	X2	12	177.971	2,690.969	14.831	2.164
	X3	12	390.126	13,003.630	32.511	5.397
A4	X1	12	446.650	16,652.680	37.221	1.595
	X2	12	202.768	3,478.080	16.897	2.171
	X3	12	331.347	9,450.492	27.612	5.233
B1	X1	16	568.190	20,300.710	35.512	2.866
	X2	16	257.075	4,263.803	16.067	2.981
	X3	16	473.763	14,814.930	29.610	7.242
B2	X1	16	566.960	20,218.670	35.435	2.926
	X2	16	258.454	4,300.605	16.153	2.895
	X3	16	476.147	14,925.290	29.759	7.097
B3	X1	16	567.300	20,240.560	35.456	2.901
	X2	16	257.262	4,264.441	16.079	2.921
	X3	16	475.198	14,884.920	29.700	7.172
C1	X1	24	814.630	27,787.780	33.943	2.439
	X2	24	436.057	8,012.052	18.169	1.971
	X3	24	835.599	29,622.380	34.817	4.799
C2	X1	24	887.820	32,972.150	36.992	2.373
	X2	24	336.734	4,816.797	14.031	2.002
	X3	24	589.509	15,002.750	24.563	4.767
A1B1	X1	4	152.850	5,849.755	38.213	1.730
	X2	4	75.308	1,436.339	18.827	2.484
	X3	4	92.494	2,247.422	23.124	6.018

(bersambung)



(sambungan)

Sumber	Variabel	n	EX	EX <sup>2</sup>	Rerata	SB
A1B2	X1	4	152.990	5,860.750	38.247	1.757
	X2	4	75.535	1,441.661	18.884	2.258
	X3	4	92.617	2,249.190	23.154	5.908
A1B3	X1	4	152.880	5,851.402	38.220	1.666
	X2	4	75.438	1,439.126	18.860	2.338
	X3	4	93.251	2,281.674	23.313	5.993
A2B1	X1	4	130.600	4,276.666	32.650	2.047
	X2	4	54.994	773.222	13.749	2.390
	X3	4	141.714	5,127.182	35.428	5.957
A2B2	X1	4	129.280	4,187.947	32.320	1.791
	X2	4	55.552	789.587	13.888	2.455
	X3	4	141.842	5,134.724	35.461	5.914
A2B3	X1	4	129.310	4,189.792	32.328	1.782
	X2	4	55.225	779.845	13.806	2.408
	X3	4	141.717	5,130.820	35.429	6.052
A3B1	X1	4	135.940	4,628.928	33.985	1.733
	X2	4	58.958	887.162	14.740	2.460
	X3	4	129.735	4,319.160	32.434	6.093
A3B2	X1	4	135.830	4,620.780	33.958	1.667
	X2	4	59.811	910.800	14.953	2.342
	X3	4	130.174	4,340.642	32.544	5.897
A3B3	X1	4	136.120	4,641.233	34.030	1.739
	X2	4	59.202	893.007	14.801	2.366
	X3	4	130.217	4,343.831	32.554	5.908
A4B1	X1	4	148.800	5,545.361	37.200	1.826
	X2	4	67.815	1,167.081	16.954	2.406
	X3	4	109.820	3,121.168	27.455	5.946
A4B2	X1	4	148.860	5,549.190	37.215	1.767
	X2	4	67.556	1,158.537	16.889	2.421
	X3	4	111.514	3,200.731	27.879	5.534
A4B3	X1	4	148.990	5,558.132	37.247	1.696
	X2	4	67.397	1,152.463	16.849	2.372
	X3	4	110.013	3,128.595	27.503	5.856

(bersambung)

(sambungan)

Sumber	Variabel	n	$\Sigma X$	$\Sigma X^2$	Rerata	SB
A1C1	X1	6	220.470	8,101.315	36.745	0.170
	X2	6	125.387	2,620.381	20.898	0.113
	X3	6	170.209	4,828.706	28.368	0.194
A1C2	X1	6	238.250	9,460.592	39.708	0.127
	X2	6	100.894	1,696.765	16.816	0.182
	X3	6	108.153	1,949.579	18.025	0.116
A2C1	X1	6	184.910	5,698.678	30.818	0.109
	X2	6	95.435	1,518.115	15.906	0.168
	X3	6	243.650	9,894.654	40.608	0.295
A2C2	X1	6	204.280	6,955.727	34.047	0.367
	X2	6	70.336	824.539	11.723	0.051
	X3	6	181.623	5,498.072	30.271	0.225
A3C1	X1	6	195.060	6,341.474	32.510	0.121
	X2	6	101.389	1,713.354	16.898	0.115
	X3	6	226.051	8,516.594	37.675	0.130
A3C2	X1	6	212.830	7,549.467	35.472	0.078
	X2	6	76.582	977.615	12.764	0.172
	X3	6	164.075	4,487.039	27.346	0.233
A4C1	X1	6	214.190	7,646.316	35.698	0.134
	X2	6	113.846	2,160.202	18.974	0.100
	X3	6	195.689	6,382.427	32.615	0.113
A4C2	X1	6	232.460	9,006.366	38.743	0.135
	X2	6	88.922	1,317.879	14.820	0.071
	X3	6	135.658	3,068.065	22.610	0.420
B1C1	X1	8	271.440	9,253.859	33.930	2.504
	X2	8	145.382	2,673.870	18.173	2.134
	X3	8	278.463	9,869.960	34.808	5.032
B1C2	X1	8	296.750	11,046.850	37.094	2.369
	X2	8	111.693	1,589.933	13.962	2.088
	X3	8	193.300	4,944.970	24.412	5.031

(bersambung)

(sambungan)

Sumber	Variabel	n	EX	EX <sup>2</sup>	Rerata	SB
B2C1	X1	8	271.420	9,254.472	33.927	2.560
	X2	8	145.626	2,678.619	18.203	1.991
	X3	8	278.315	9,859.936	34.789	5.036
B2C2	X1	8	295.540	10,964.200	36.942	2.569
	X2	8	112.828	1,621.986	14.104	2.095
	X3	8	197.832	5,065.350	24.729	4.974
B3C1	X1	8	271.770	9,279.451	33.971	2.594
	X2	8	145.049	2,659.563	18.131	2.058
	X3	8	278.821	9,892.484	34.853	4.998
B3C2	X1	8	295.530	10,961.110	36.941	2.503
	X2	8	112.213	1,604.878	14.027	2.101
	X3	8	196.377	4,992.434	24.547	4.956
A1B1C1	X1	2	73.430	2,695.985	36.715	0.049
	X2	2	41.951	879.933	20.976	0.099
	X3	2	56.668	1,605.655	28.334	0.154
A1B1C2	X1	2	79.420	3,153.770	39.710	0.044
	X2	2	33.357	556.386	16.679	0.203
	X3	2	35.826	641.767	17.913	0.124
A1B2C1	X1	2	73.460	2,698.225	36.730	0.198
	X2	2	41.672	868.304	20.836	0.161
	X3	2	56.541	1,598.449	28.271	0.083
A1B2C2	X1	2	79.530	3,162.525	39.765	0.121
	X2	2	33.863	573.377	16.932	0.159
	X3	2	36.076	650.740	18.038	0.038
A1B3C1	X1	2	73.580	2,707.105	36.790	0.311
	X2	2	41.764	872.124	20.882	0.089
	X3	2	57.000	1,624.602	28.500	0.319
A1B3C2	X1	2	79.300	3,144.297	39.650	0.226
	X2	2	33.674	567.002	16.837	0.181
	X3	2	36.251	637.072	18.126	0.067

(bersambung)

(sambungan)

Sumber	Variabel	n	EX	EX <sup>2</sup>	Rerata	SB
A2B1C1	X1	2	61.790	1,909.033	30.895	0.177
	X2	2	31.626	500.188	15.813	0.294
	X3	2	81.170	3,294.333	40.585	0.220
A2B1C2	X1	2	68.810	2,367.633	34.405	0.474
	X2	2	23.368	273.033	11.684	0.037
	X3	2	60.544	1,832.849	30.272	0.248
A2B2C1	X1	2	61.550	1,894.210	30.775	0.092
	X2	2	32.026	512.846	16.013	0.116
	X3	2	81.139	3,292.132	40.570	-0.603
A2B2C2	X1	2	67.730	2,293.738	33.865	0.248
	X2	2	23.526	276.741	11.763	0.071
	X3	2	60.703	1,842.591	30.352	0.405
A2B3C1	X1	2	61.570	1,895.435	30.785	0.049
	X2	2	31.783	505.081	15.892	0.036
	X3	2	81.341	3,308.189	40.671	0.098
A2B3C2	X1	2	67.740	2,294.357	33.870	0.052
	X2	2	23.442	274.764	11.721	0.021
	X3	2	60.376	1,822.631	30.188	0.016
A3B1C1	X1	2	64.980	2,111.265	32.490	0.255
	X2	2	33.735	569.042	16.868	0.128
	X3	2	75.420	2,844.100	37.710	0.107
A3B1C2	X1	2	70.960	2,517.663	35.480	0.044
	X2	2	25.223	318.120	12.612	0.142
	X3	2	54.315	1,475.060	27.158	0.019
A3B2C1	X1	2	65.030	2,114.457	32.515	0.078
	X2	2	33.958	576.601	16.979	0.168
	X3	2	75.294	2,834.617	37.647	0.151
A3B2C2	X1	2	70.800	2,506.323	35.400	0.054
	X2	2	25.853	334.198	12.927	0.098
	X3	2	54.880	1,506.025	27.440	0.344
A3B3C1	X1	2	65.050	2,115.752	32.525	0.016
	X2	2	33.696	567.711	16.848	0.035
	X3	2	75.337	2,837.877	37.669	0.212

(bersambung)

(sambungan)

Sumber	Variabel	n	$\Sigma X$	$\Sigma X^2$	Rerata	SB
A3B3C2	X1	2	71.070	2,525.481	35.535	0.092
	X2	2	25.506	325.296	12.753	0.134
	X3	2	54.880	1,505.953	27.440	0.215
A4B1C1	X1	2	71.240	2,537.576	35.620	0.084
	X2	2	38.070	724.687	19.035	0.157
	X3	2	65.205	2,125.873	32.603	0.165
A4B1C2	X1	2	77.560	3,007.784	38.780	0.087
	X2	2	29.745	442.394	14.873	0.106
	X3	2	44.615	995.294	22.308	0.213
A4B2C1	X1	2	71.380	2,547.581	35.690	0.169
	X2	2	37.970	720.868	18.985	0.086
	X3	2	65.341	2,134.737	32.671	0.118
A4B2C2	X1	2	77.480	3,001.609	38.740	0.184
	X2	2	29.586	437.669	14.793	0.061
	X3	2	46.173	1,065.993	23.087	0.142
A4B3C1	X1	2	71.570	2,561.159	35.785	0.162
	X2	2	37.806	714.647	18.903	0.000
	X3	2	65.143	2,121.817	32.572	0.108
A4B3C2	X1	2	77.420	2,996.973	38.710	0.213
	X2	2	29.591	437.816	14.796	0.046
	X3	2	44.870	1,006.778	22.435	0.345
Total	X1	48	1,702.450	60,759.940	35.468	2.836
	X2	48	772.791	12,828.850	16.100	2.870
	X3	48	1,425.108	44,625.140	29.690	7.017

\*\* UJI-t ANTAR

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Sumber	X1	X2	X3
A1-A2	78.403	96.187	-128.921
p	0.000	0.000	0.000
A1-A3	57.317	76.794	-98.078
p	0.000	0.000	0.000
A1-A4	13.610	37.377	-46.497
p	0.000	0.000	0.000
A2-A3	-21.086	-19.393	30.843
p	0.000	0.000	0.000
A2-A4	-64.793	-58.811	82.424
p	0.000	0.000	0.000
A3-A4	-43.706	-39.418	51.581
p	0.000	0.000	0.000

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p = dua-ekor.

\*\* UJI-t ANTAR

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Sumber	X1	X2	X3
B1-B2	1.201	-1.898	-1.812
p	0.240	0.067	0.079
B1-B3	0.869	-0.257	-1.091
p	0.602	0.795	0.286
B2-B3	-0.332	1.641	0.721
p	0.742	0.110	0.516

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p = dua-ekor.

\*\* UJI-t ANTAR

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Sumber	X1	X2	X3
C1-C2	-58.357	111.642	152.704
p	0.000	0.000	0.000

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p = dua-ekor.