



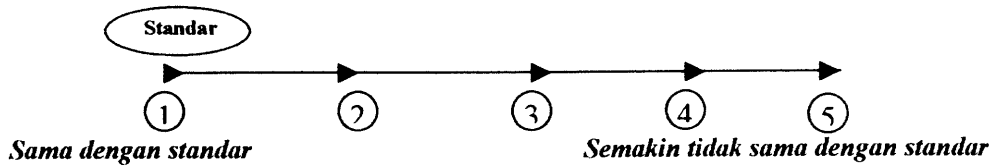
LAMPIRAN

LAMPIRAN 1. Kuisisioner Uji Sensoris

KUISIONER

Nama :
 Tanggal :
 Umur :

A. Dihadapan saudara terdapat 5 sampel minuman untuk dinilai rasa, aroma (bau) dan kenampakan keseluruhan, kemudian anda diminta membandingkan dengan standar (S) dengan kriteria ranking dibawah ini :



Isilah kolom dibawah ini berdasarkan kriteria diatas:

Tahap I

Atribut Penilaian	231	592	486	179	325
Aroma (bau)					
Rasa					
KeseluruhanPenerimaan(warna,kekeruhan)					

Komentar :

Tahap II

Atribut Penilaian	735	835	627	091	428
Aroma (bau)					
Rasa					
Keseluruhan Penerimaan (warna, kekeruhan)					

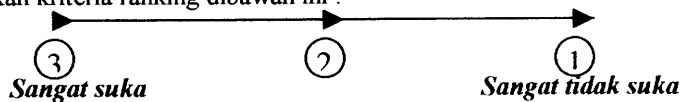
Komentar :

Tahap III

Atribut Penilaian	825	982	393	731	344
Aroma (bau)					
Rasa					
Keseluruhan Penerimaan (warna, kekeruhan)					

Komentar :

B. Berikutnya anda diminta megurutkan berdasarkan penerimaan/kesukaan untuk setiap 3 sampel berikut ini berdasarkan kriteria ranking dibawah ini :



Isilah kolom dibawah ini berdasarkan kriteria diatas

Kelompok 1		Kelompok 2		Kelompok 3		Kelompok 4		Kelompok 5	
Kode	Urutan	Kode	Urutan	Kode	Urutan	Kode	Urutan	Kode	Urutan
231		592		486		179		325	
735		835		627		091		428	
825		982		393		731		344	

TERIMAKASIH

LAMPIRAN 2. Hasil Pengamatan Suhu dan RH selama penyimpanan

No	Tanggal	Suhu ($^{\circ}\text{C}$)	RH (%)	No	Tanggal	Suhu ($^{\circ}\text{C}$)	RH (%)
1	15-Apr-02	44	62	29	13-May-02	45	68
2	16-Apr-02	45	62	30	14-May-02	45	69
3	17-Apr-02	45	70	31	15-May-02	44	70
4	18-Apr-02	45	64	32	16-May-02	45	62
5	19-Apr-02	46	59	33	17-May-02	45	65
6	20-Apr-02	45	64	34	18-May-02	45	65
7	21-Apr-02	45	64	35	19-May-02	44	67
8	22-Apr-02	45	63	36	20-May-02	45	66
9	23-Apr-02	45	66	37	21-May-02	45	59
10	24-Apr-02	45	63	38	22-May-02	46	61
11	25-Apr-02	46	66	39	23-May-02	46	63
12	26-Apr-02	46	59	40	24-May-02	46	66
13	27-Apr-02	45	60	41	25-May-02	46	64
14	28-Apr-02	46	61	42	26-May-02	46	66
15	29-Apr-02	46	61	43	27-May-02	46	67
16	30-Apr-02	45	70	44	28-May-02	46	67
17	1-May-02	45	62	45	29-May-02	45	69
18	2-May-02	46	66	46	30-May-02	46	64
19	3-May-02	45	62	47	31-May-02	46	66
20	4-May-02	44	60	48	1-Jun-02	46	69
21	5-May-02	45	67	49	2-Jun-02	46	70
22	6-May-02	46	71	50	3-Jun-02	46	66
23	7-May-02	45	69	51	4-Jun-02	46	62
24	8-May-02	45	62	52	5-Jun-02	46	61
25	9-May-02	44	63	53	6-Jun-02	46	64
26	10-May-02	45	65	54	7-Jun-02	46	65
27	11-May-02	44	64	55	8-Jun-02	46	63
28	12-May-02	45	64	56	9-Jun-02	46	66

Keterangan:

Range Suhu : 44 - 46 $^{\circ}\text{C}$

Range RH : 59 - 71 %

Suhu Rata-rata : 45.16 $^{\circ}\text{C}$

RH Rata-rata : 64.62 %

LAMPIRAN 3. Hasil Anova Dua Arah (Two Way Anova) Kadar Air terhadap Umur Simpan dan Perlakuan Penambahan Vitamin C

Between-Subjects Factors

		Value Label	N
VIT_C	1.00	VITAMIN 0%	15
	2.00	VITAMIN 0.25%	15
	3.00	VITAMIN 0.50	15
UMUR_SP	1.00	MINGGU 0 VIT 0%	3
	2.00	MINGGU 2 VIT 0 %	3
	3.00	MINGGU 4 VIT 0%	3
	4.00	MINGGU 6 VIT 0%	3
	5.00	MINGGU 8 VIT 0%	3
	6.00	MINGGU 0 VIT 0.25%	3
	7.00	MINGGU 2 VIT 0.25%	3
	8.00	MINGGU 4 VIT 0.25%	3
	9.00	MINGGU 6 VIT 0.25%	3
	10.00	MINGGU 8 VIT 0.25%	3
	11.00	MINGGU 0 VIT 0.50%	3
	12.00	MINGGU 2 VIT 0.50%	3
	13.00	MINGGU 4 VIT 0.50%	3
	14.00	MINGGU 6 VIT 0.50%	3
	15.00	MINGGU 8 VIT 0.50%	3

Descriptive Statistics

Dependent Variable: KD_AIR

VIT_C	UMUR_SP	Mean	Std. Deviation	N
VITAMIN 0%	MINGGU 0 VIT 0%	1.6867	.1060	3
	MINGGU 2 VIT 0 %	2.2333	.4429	3
	MINGGU 4 VIT 0%	2.1933	.5914	3
	MINGGU 6 VIT 0%	1.5800	.5444	3
	MINGGU 8 VIT 0%	2.1000	7.000E-02	3
	Total	1.9587	.4488	15
VITAMIN 0.25%	MINGGU 0 VIT 0.25%	1.9767	.2003	3
	MINGGU 2 VIT 0.25%	1.5800	2.646E-02	3
	MINGGU 4 VIT 0.25%	2.2000	.2987	3
	MINGGU 6 VIT 0.25%	2.1867	.2237	3
	MINGGU 8 VIT 0.25%	2.5267	.1960	3
	Total	2.0940	.3676	15
VITAMIN 0.50	MINGGU 0 VIT 0.50%	1.2733	.5000	3
	MINGGU 2 VIT 0.50%	1.8033	.2442	3
	MINGGU 4 VIT 0.50%	1.4000	.2512	3
	MINGGU 6 VIT 0.50%	1.6533	.4801	3
	MINGGU 8 VIT 0.50%	1.9100	.2007	3
	Total	1.6080	.3916	15
Total	MINGGU 0 VIT 0%	1.6867	.1060	3
	MINGGU 2 VIT 0 %	2.2333	.4429	3
	MINGGU 4 VIT 0%	2.1933	.5914	3
	MINGGU 6 VIT 0%	1.5800	.5444	3
	MINGGU 8 VIT 0%	2.1000	7.000E-02	3
	MINGGU 0 VIT 0.25%	1.9767	.2003	3
	MINGGU 2 VIT 0.25%	1.5800	2.646E-02	3
	MINGGU 4 VIT 0.25%	2.2000	.2987	3
	MINGGU 6 VIT 0.25%	2.1867	.2237	3
	MINGGU 8 VIT 0.25%	2.5267	.1960	3
	MINGGU 0 VIT 0.50%	1.2733	.5000	3
	MINGGU 2 VIT 0.50%	1.8033	.2442	3
	MINGGU 4 VIT 0.50%	1.4000	.2512	3
	MINGGU 6 VIT 0.50%	1.6533	.4801	3
	MINGGU 8 VIT 0.50%	1.9100	.2007	3
Total	1.8869	.4459	45	

Levene's Test of Equality of Error Variances^a

Dependent Variable: KD_AIR

F	df1	df2	Sig.
3.233	14	30	.003

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Design: VIT_C+UMUR_SP+VIT_C * UMUR_SP

Tests of Between-Subjects Effects

Dependent Variable: KD_AIR

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Model	165.522 ^a	15	11.035	96.206	.000
VIT_C	.000	0	.	.	.
UMUR_SP	3.419	12	.285	2.484	.021
VIT_C * UMUR_SP	.000	0	.	.	.
Error	3.441	30	.115		
Total	168.963	45			

a. R Squared = .980 (Adjusted R Squared = .969)

Estimated Marginal Means

Grand Mean

Dependent Variable: KD_AIR

Mean	Std. Error	95% Confidence Interval	
		Lower Bound	Upper Bound
1.887 ^a	.050	1.784	1.990

a. Based on modified population marginal mean.

Post Hoc Tests
UMUR_SP
Homogeneous Subsets

KD_AIR

Duncan^{a,b}

UMUR_SP	N	Subset			
		1	2	3	4
MINGGU 0 VIT 0.50%	3	1.2733			
MINGGU 4 VIT 0.50%	3	1.4000	1.4000		
MINGGU 6 VIT 0%	3	1.5800	1.5800	1.5800	
MINGGU 2 VIT 0.25%	3	1.5800	1.5800	1.5800	
MINGGU 6 VIT 0.50%	3	1.6533	1.6533	1.6533	
MINGGU 0 VIT 0%	3	1.6867	1.6867	1.6867	
MINGGU 2 VIT 0.50%	3	1.8033	1.8033	1.8033	
MINGGU 8 VIT 0.50%	3	1.9100	1.9100	1.9100	1.9100
MINGGU 0 VIT 0.25%	3		1.9767	1.9767	1.9767
MINGGU 8 VIT 0%	3			2.1000	2.1000
MINGGU 6 VIT 0.25%	3			2.1867	2.1867
MINGGU 4 VIT 0%	3			2.1933	2.1933
MINGGU 4 VIT 0.25%	3			2.2000	2.2000
MINGGU 2 VIT 0 %	3			2.2333	2.2333
MINGGU 8 VIT 0.25%	3				2.5267
Sig.		.055	.081	.054	.062

Means for groups in homogeneous subsets are displayed.

Based on Type III Sum of Squares

The error term is Mean Square(Error) = .115.

a. Uses Harmonic Mean Sample Size = 3.000.

b. Alpha = .05.

**LAMPIRAN 4. Hasil Anova Dua Arah (Two Way Anova) Angka TBA
terhadap Umur Simpan dan Perlakuan Penambahan
Vitamin**

Between-Subjects Factors

		Value Label	N
VIT_C	1.00	VITAMIN 0%	15
	2.00	VITAMIN 0.25%	15
	3.00	VITAMIN 0.50	15
UMUR_SP	1.00	MINGGU 0 VIT 0%	3
	2.00	MINGGU 2 VIT 0%	3
	3.00	MINGGU 4 VIT 0%	3
	4.00	MINGGU 6 VIT 0%	3
	5.00	MINGGU 8 VIT 0%	3
	6.00	MINGGU 0 VIT 0.25%	3
	7.00	MINGGU 2 VIT 0.25%	3
	8.00	MINGGU 4 VIT 0.25%	3
	9.00	MINGGU 6 VIT 0.25%	3
	10.00	MINGGU 8 VIT 0.25%	3
	11.00	MINGGU 0 VIT 0.50%	3
	12.00	MINGGU 2 VIT 0.50%	3
	13.00	MINGGU 4 VIT 0.50%	3
	14.00	MINGGU 6 VIT 0.50%	3
	15.00	MINGGU 8 VIT 0.50%	3

Descriptive Statistics

Dependent Variable: KD_TBA

VIT_C	UMUR_SP	Mean	Std. Deviation	N
VITAMIN 0%	MINGGU 0 VIT 0%	.2033	2.517E-02	3
	MINGGU 2 VIT 0 %	.5400	4.000E-02	3
	MINGGU 4 VIT 0%	1.3100	4.359E-02	3
	MINGGU 6 VIT 0%	2.2167	2.517E-02	3
	MINGGU 8 VIT 0%	2.7767	1.528E-02	3
	Total	1.4093	1.0083	15
VITAMIN 0.25%	MINGGU 0 VIT 0.25%	.3667	.1443	3
	MINGGU 2 VIT 0.25%	.4733	.2285	3
	MINGGU 4 VIT 0.25%	1.0967	.9325	3
	MINGGU 6 VIT 0.25%	2.0967	4.726E-02	3
	MINGGU 8 VIT 0.25%	2.5833	3.055E-02	3
	Total	1.3233	.9826	15
VITAMIN 0.50	MINGGU 0 VIT 0.50%	.4100	.2606	3
	MINGGU 2 VIT 0.50%	.4633	.1762	3
	MINGGU 4 VIT 0.50%	.9000	.1136	3
	MINGGU 6 VIT 0.50%	1.9500	4.583E-02	3
	MINGGU 8 VIT 0.50%	2.3600	7.000E-02	3
	Total	1.2167	.8336	15
Total	MINGGU 0 VIT 0%	.2033	2.517E-02	3
	MINGGU 2 VIT 0 %	.5400	4.000E-02	3
	MINGGU 4 VIT 0%	1.3100	4.359E-02	3
	MINGGU 6 VIT 0%	2.2167	2.517E-02	3
	MINGGU 8 VIT 0%	2.7767	1.528E-02	3
	MINGGU 0 VIT 0.25%	.3667	.1443	3
	MINGGU 2 VIT 0.25%	.4733	.2285	3
	MINGGU 4 VIT 0.25%	1.0967	.9325	3
	MINGGU 6 VIT 0.25%	2.0967	4.726E-02	3
	MINGGU 8 VIT 0.25%	2.5833	3.055E-02	3
	MINGGU 0 VIT 0.50%	.4100	.2606	3
	MINGGU 2 VIT 0.50%	.4633	.1762	3
	MINGGU 4 VIT 0.50%	.9000	.1136	3
	MINGGU 6 VIT 0.50%	1.9500	4.583E-02	3
	MINGGU 8 VIT 0.50%	2.3600	7.000E-02	3
	Total	1.3164	.9264	45

Levene's Test of Equality of Error Variances^a

Dependent Variable: KD_TBA

F	df1	df2	Sig.
11.654	14	30	.000

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Design: VIT_C+UMUR_SP+VIT_C * UMUR_SP

Tests of Between-Subjects Effects

Dependent Variable: KD_TBA

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Model	113.605 ^a	15	7.574	106.202	.000
VIT_C	.000	0			
UMUR_SP	35.339	12	2.945	41.295	.000
VIT_C * UMUR_SP	.000	0			
Error	2.139	30	7.131E-02		
Total	115.744	45			

a. R Squared = .982 (Adjusted R Squared = .972)

Estimated Marginal Means

Grand Mean

Dependent Variable: KD_TBA

Mean	Std. Error	95% Confidence Interval	
		Lower Bound	Upper Bound
1.316 ^a	.040	1.235	1.398

a. Based on modified population marginal mean.

Post Hoc Tests
UMUR_SP
Homogeneous Subsets

KD_TBA

Duncan^{a,b}

UMUR_SP	N	Subset					
		1	2	3	4	5	6
MINGGU 0 VIT 0%	3	.2033					
MINGGU 0 VIT 0.25	3	.3667					
MINGGU 0 VIT 0.50	3	.4100	.4100				
MINGGU 2 VIT 0.50	3	.4633	.4633				
MINGGU 2 VIT 0.25	3	.4733	.4733				
MINGGU 2 VIT 0 %	3	.5400	.5400				
MINGGU 4 VIT 0.50	3		.9000	.9000			
MINGGU 4 VIT 0.25	3			1.0967			
MINGGU 4 VIT 0%	3			1.3100			
MINGGU 6 VIT 0.50	3				1.9500		
MINGGU 6 VIT 0.25	3				2.0967		
MINGGU 6 VIT 0%	3				2.2167	2.2167	
MINGGU 8 VIT 0.50	3				2.3600	2.3600	2.3600
MINGGU 8 VIT 0.25	3					2.5833	2.5833
MINGGU 8 VIT 0%	3						2.7767
Sig.		.185	.051	.084	.095	.122	.080

Means for groups in homogeneous subsets are displayed.

Based on Type III Sum of Squares

The error term is Mean Square(Error) = 7.131E-02.

a. Uses Harmonic Mean Sample Size = 3.000.

b. Alpha = .05.

LAMPIRAN 5. Hubungan Antara angka TBA dengan Skor Sensoris pada Minuman Serbuk Selama Penyimpanan

Descriptive Statistics

	Mean	Std. Deviation	N
UMUR_SP	3.0000	1.4639	15
SENSORIS	3.0007	1.1233	15
KD_TBA	1.0733	.4015	15

Correlations

		UMUR_SP	SENSORIS	KD_TBA
UMUR_SP	Pearson Correlation	1.000	.984**	.976**
	Sig. (2-tailed)		.000	.000
	N	15	15	15
SENSORIS	Pearson Correlation	.984**	1.000	.970**
	Sig. (2-tailed)	.000		.000
	N	15	15	15
KD_TBA	Pearson Correlation	.976**	.970**	1.000
	Sig. (2-tailed)	.000	.000	
	N	15	15	15

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

