

7. LAMPIRAN

Lampiran 1. Syarat Mutu *Fruit Wine* (SNI 01-4019-1996)

Tabel 5. Syarat Mutu *Fruit Wine* (SNI 01-4019-1996)

No.	Kriteria Uji	Satuan	Persyaratan
1.	Keadaan: Bau dan Rasa		Normal/khas
2.	Etil alkohol	%v/v	5-15
3.	Metil alkohol	%v/v	Maks. 0,1
4.	Asam volatil (dihitung asam asetat)	Terhadap alkohol absolut	Maks. 0,2
5.	Bahan Tambahan Makanan	g/100 ml	Sesuai SNI 01-0222-1987
	a. Zat Warna		
	b. Pengawet SO ₂		
	c. Pemanis Buatan		Negatif
6.	Cemaran Logam	mg/kg	
	a. Timbal (Pb)		Maks. 0,2
	b. Tembaga (Cu)		Maks. 2,0
	c. Seng (Zn)		Maks. 2,0
	d. Raksa (Hg)		Maks. 0,03
	e. Timah (Sn)		Maks. 40,0
7.	Cemaran Arsen	mg/kg	Maks. 0,1
8.	Cemaran Mikroba		
	a. Angka Lempeng Total	Koloni/ml	Maks. 2×10^2
	b. Bakteri <i>coliform</i>	APM/ml	Maks. 20
	c. <i>Escherichia coli</i>	APM/ml	< 3
	d. <i>Salmonella sp.</i>		Negatif
	e. <i>Staphylococcus aureus</i>	Koloni/ml	0
	f. <i>Vibrio sp.</i>		-
	g. <i>Clostridium perfringens</i>		-
	h. Kapang	Koloni/ml	Maks. 50
	i. Khamir	Koloni/ml	Maks. 50

Lampiran 2. *Scoresheet* Sensori

UJI RANKING HEDONIK

Tanggal :

Nama :

Produk : Tuak Secang

Instruksi :

Berkumur-kumurlah dulu sebelum menguji masing-masing sampel.

Di hadapan Anda terdapat 6 sampel tuak sampel. Cicipi sampel secara berurutan dari kiri ke kanan, rasakan masing-masing. Setelah mencicipi semua sampel, Anda boleh mengulanginya kembali. Urutkan sampel dari yang paling Anda tidak sukai (=1) hingga yang paling Anda sukai (=6). Tidak boleh ada perulangan nilai.

Kode Sampel	Rasa	Warna	Aroma	After taste	Over all

Terima Kasih

Lampiran 3. Analisa Data Penelitian

4.1. Analisa Fisik : Warna

LTukey HSD^{a,b}

Aging	N	Subset 1
0 month	12	22.4508
1 month	12	24.7833
2 month	12	24.8592
Sig.		.402

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square (Error) = 20.368.

a. Uses Harmonic Mean Sample Size = 12.000.

b. Alpha = .05.

Tests of Between-Subjects Effects

Dependent Variable: L

Source	Type III Sum of Squares	df	Mean Square	F	Sig.	Partial Eta Squared
Corrected Model	275.121 ^a	5	55.024	2.702	.039	.310
Intercept	20789.795	1	20789.795	1020.731	.000	.971
Ferment	157.670	1	157.670	7.741	.009	.205
Aging	44.986	2	22.493	1.104	.345	.069
Ferment * Aging	72.466	2	36.233	1.779	.186	.106
Error	611.027	30	20.368			
Total	21675.943	36				
Corrected Total	886.148	35				

a. R Squared = .310 (Adjusted R Squared = .196)

Tests of Between-Subjects Effects

Dependent Variable: a

Source	Type III Sum of Squares	df	Mean Square	F	Sig.	Partial Eta Squared
Corrected Model	26.262 ^a	5	5.252	9.729	.000	.619
Intercept	9.110	1	9.110	16.875	.000	.360
Ferment	1.854	1	1.854	3.434	.074	.103
Aging	23.255	2	11.627	21.538	.000	.589
Ferment * Aging	1.153	2	.577	1.068	.356	.066
Error	16.196	30	.540			
Total	51.568	36				
Corrected Total	42.458	35				

a. R Squared = .619 (Adjusted R Squared = .555)

Tests of Between-Subjects Effects

Dependent Variable: b

Source	Type III Sum of Squares	df	Mean Square	F	Sig.	Partial Eta Squared
Corrected Model	516.808 ^a	5	103.362	20.846	.000	.777
Intercept	1067.329	1	1067.329	215.257	.000	.878
Ferment	3.509	1	3.509	.708	.407	.023
Aging	486.451	2	243.226	49.053	.000	.766
Ferment * Aging	26.847	2	13.423	2.707	.083	.153
Error	148.752	30	4.958			
Total	1732.888	36				
Corrected Total	665.559	35				

a. R Squared = .777 (Adjusted R Squared = .739)

4.2. Analisa Fisik : Kekерuhan

Turbi

Tukey HSD^{a,b}

Aging	N	Subset	
		1	2
0 month	12	50.2942	
2 month	12	61.5533	
1 month	12		87.6667
Sig.		.337	1.000

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 369.914.

a. Uses Harmonic Mean Sample Size = 12.000.

b. Alpha = .05.

Tests of Between-Subjects Effects

Dependent Variable: Turbi

Source	Type III Sum of Squares	df	Mean Square	F	Sig.	Partial Eta Squared
Corrected Model	35588.305 ^a	5	7117.661	19.241	.000	.762
Intercept	159223.611	1	159223.611	430.434	.000	.935
Ferment	25954.821	1	25954.821	70.165	.000	.700
Aging	8821.515	2	4410.758	11.924	.000	.443
Ferment * Aging	811.969	2	405.984	1.098	.347	.068
Error	11097.411	30	369.914			
Total	205909.326	36				
Corrected Total	46685.715	35				

a. R Squared = .762 (Adjusted R Squared = .723)

1. Analisa Kimia : pH

Tukey HSD^{a,b}

Aging	N	Subset	
		1	2
0 month	12	3.3075	
2 month	12		3.6358
1 month	12		3.6725
Sig.		1.000	.459

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = .006.

a. Uses Harmonic Mean Sample Size = 12.000.

b. Alpha = .05.

Tests of Between-Subjects Effects

Dependent Variable: pH

Source	Type III Sum of Squares	df	Mean Square	F	Sig.	Partial Eta Squared
Corrected Model	.991 ^a	5	.198	35.686	.000	.856
Intercept	450.784	1	450.784	81149.175	.000	1.000
Ferment	.013	1	.013	2.381	.133	.074
Aging	.969	2	.485	87.263	.000	.853
Ferment * Aging	.008	2	.004	.762	.476	.048
Error	.167	30	.006			
Total	451.941	36				
Corrected Total	1.158	35				

a. R Squared = .856 (Adjusted R Squared = .832)

2. Analisa Kimia : Kandungan Gula

BrixTukey HSD^{a,b}

Aging	N	Subset 1
2 month	12	4.7250
0 month	12	4.7500
1 month	12	4.9000
Sig.		.598

Means for groups in homogeneous subsets are displayed.

Based on observed means.
The error term is Mean Square (Error) = .194.

a. Uses Harmonic Mean
Sample Size = 12.000.

b. Alpha = .05.

Tests of Between-Subjects Effects

Dependent Variable: Brix

Source	Type III Sum of Squares	df	Mean Square	F	Sig.	Partial Eta Squared
Corrected Model	3.063 ^a	5	.613	3.165	.021	.345
Intercept	826.563	1	826.563	4271.641	.000	.993
Ferment	2.723	1	2.723	14.070	.001	.319
Aging	.215	2	.108	.556	.580	.036
Ferment * Aging	.125	2	.063	.323	.726	.021
Error	5.805	30	.194			
Total	835.430	36				
Corrected Total	8.868	35				

a. R Squared = .345 (Adjusted R Squared = .236)

3. Analisa Kimia : Total Asam Volatil

TAVTukey HSD^{a,b}

Aging	N	Subset	
		1	2
1 month	12	.2167	
2 month	12		.2650
0 month	12		.2883
Sig.		1.000	.216

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = .001.

a. Uses Harmonic Mean Sample Size = 12.000.

b. Alpha = .05.

Tests of Between-Subjects Effects

Dependent Variable: TAV

Source	Type III Sum of Squares	df	Mean Square	F	Sig.	Partial Eta Squared
Corrected Model	.437 ^a	5	.087	78.672	.000	.929
Intercept	2.372	1	2.372	2134.440	.000	.986
Ferment	.393	1	.393	353.440	.000	.922
Aging	.032	2	.016	14.430	.000	.490
Ferment * Aging	.012	2	.006	5.530	.009	.269
Error	.033	30	.001			
Total	2.842	36				
Corrected Total	.470	35				

a. R Squared = .929 (Adjusted R Squared = .917)

4. Analisa Kimia : Total SO₂**SO₂**Tukey HSD^{a,b}

Aging	N	Subset	
		1	2
0 month	12	10.00000	
1 month	12		15.86667
2 month	12		17.33333
Sig.		1.000	.178

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 3.868.

a. Uses Harmonic Mean Sample Size = 12.000.

b. Alpha = .05.

Tests of Between-Subjects Effects

Dependent Variable: SO2

Source	Type III Sum of Squares	df	Mean Square	F	Sig.	Partial Eta Squared
Corrected Model	401.067 ^a	5	80.213	20.735	.000	.776
Intercept	7464.960	1	7464.960	1929.706	.000	.985
Ferment	7.111	1	7.111	1.838	.185	.058
Aging	361.387	2	180.693	46.710	.000	.757
Ferment * Aging	32.569	2	16.284	4.210	.024	.219
Error	116.053	30	3.868			
Total	7982.080	36				
Corrected Total	517.120	35				

a. R Squared = .776 (Adjusted R Squared = .738)

SO2

Tukey HSD^{a,b}

Aging	N	Subset	
		1	2
0 month	12	10.00000	
1 month	12		15.86667
2 month	12		17.33333
Sig.		1.000	.178

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 3.868.

a. Uses Harmonic Mean Sample Size = 12.000.

b. Alpha = .05.

5. Analisa Kimia : Aktivitas Antioksidan

Antiox

Tukey HSD^{a,b}

Aging	N	Subset	
		1	2
0 month	12	4.8267	
1 month	12		73.1767
2 month	12		83.2400
Sig.		1.000	.065

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 110.646.

a. Uses Harmonic Mean Sample Size = 12.000.

b. Alpha = .05.

Tests of Between-Subjects Effects

Dependent Variable: Antiox

Source	Type III Sum of Squares	df	Mean Square	F	Sig.	Partial Eta Squared
Corrected Model	44259.789 ^a	5	8851.958	80.003	.000	.930
Intercept	103997.650	1	103997.650	939.917	.000	.969
Ferment	5.696	1	5.696	.051	.822	.002
Aging	43686.576	2	21843.288	197.417	.000	.929
Ferment * Aging	567.517	2	283.758	2.565	.094	.146
Error	3319.366	30	110.646			
Total	151576.805	36				
Corrected Total	47579.155	35				

a. R Squared = .930 (Adjusted R Squared = .919)

6. Analisa Kimia : Etanol

ethanol

Tukey HSD^{a,b}

Aging	N	Subset	T
0 month	4	3.7525	
1 month	4	4.6275	
2 month	4	5.4825	
Sig.			.556

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square (Error) = 5.083.

a. Uses Harmonic Mean Sample Size = 4.000.
b. Alpha = .05.

Tests of Between-Subjects Effects

Dependent Variable: ethanol

Source	Type III Sum of Squares	df	Mean Square	F	Sig.	Partial Eta Squared
Corrected Model	40.942 ^a	5	8.188	1.611	.288	.573
Intercept	256.225	1	256.225	50.412	.000	.894
Ferment	30.242	1	30.242	5.950	.051	.498
Aging	5.986	2	2.993	.589	.584	.164
Ferment * Aging	4.714	2	2.357	.464	.650	.134
Error	30.496	6	5.083			
Total	327.663	12				
Corrected Total	71.438	11				

a. R Squared = .573 (Adjusted R Squared = .217)

1. Analisa Sensori : Warna

Test Statistics^a

N		30
Chi-Square		12.971
df		5
Asymp. Sig.		.024
Monte Carlo Sig.	Sig.	.021
	95% Confidence Interval	Lower Bound
		Upper Bound
		.018
		.024

a. Friedman Test

2. Analisa Sensori : Rasa

Test Statistics^a

N		30
Chi-Square		14.933
df		5
Asymp. Sig.		.011
Monte Carlo Sig.	Sig.	.010
	95% Confidence Interval	Lower Bound
		Upper Bound
		.008
		.012

a. Friedman Test

3. Analisa Sensori : Aroma

Test Statistics^a

N		30
Chi-Square		43.511
df		5
Asymp. Sig.		.000
Monte Carlo Sig.	Sig.	.000
	95% Confidence Interval	Lower Bound
		Upper Bound
		.000
		.000

a. Friedman Test

4. Analisa Sensori : *After taste*Test Statistics^a

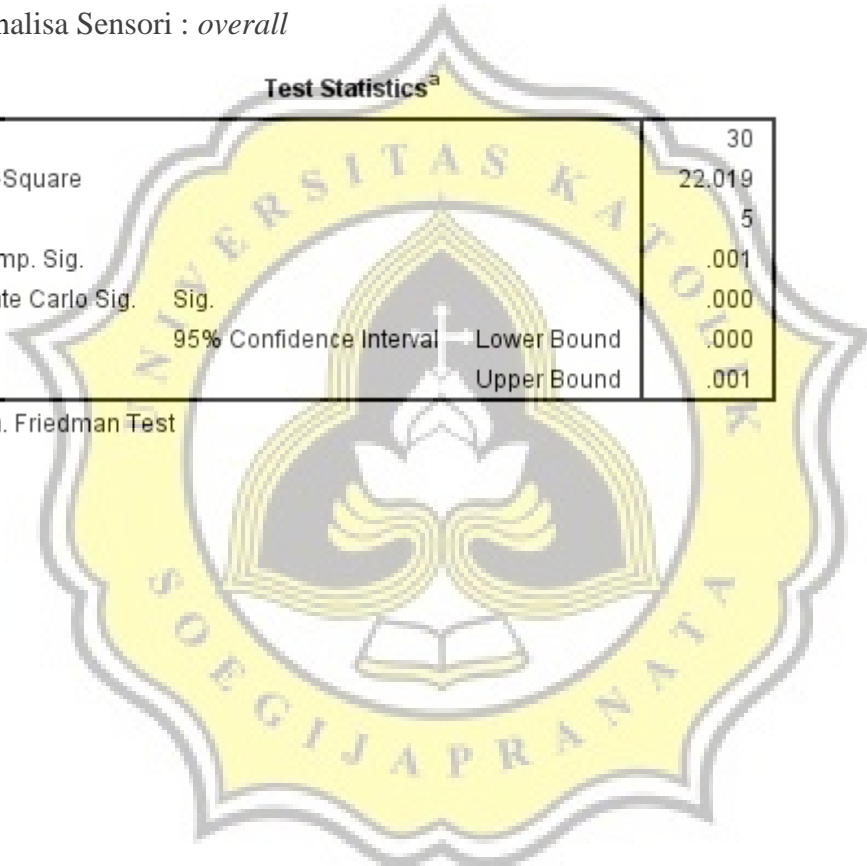
N		30
Chi-Square		22.248
df		5
Asymp. Sig.		.000
Monte Carlo Sig.	Sig.	.000
	95% Confidence Interval	Lower Bound
		Upper Bound
		.000
		.000

a. Friedman Test

5. Analisa Sensori : *overall*Test Statistics^a

N		30
Chi-Square		22.019
df		5
Asymp. Sig.		.001
Monte Carlo Sig.	Sig.	.000
	95% Confidence Interval	Lower Bound
		Upper Bound
		.000
		.001

a. Friedman Test






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