

LAMPIRAN 1. Media

1. Medium Aktivasi Kultur

Medium yang digunakan untuk mengaktifkan bahan murni adalah *Glucose Protein Yeast Extract* (GPYE) instan, yang mengandung glukosa, *extract khamir*, pepton, tepung agar, $MgSO_4 \cdot 7H_2O$, KH_2PO_4 , dan aquades. Bahan-bahan tersebut dihomogenkan lalu disterilisasi.

2. Medium Difusi Conway

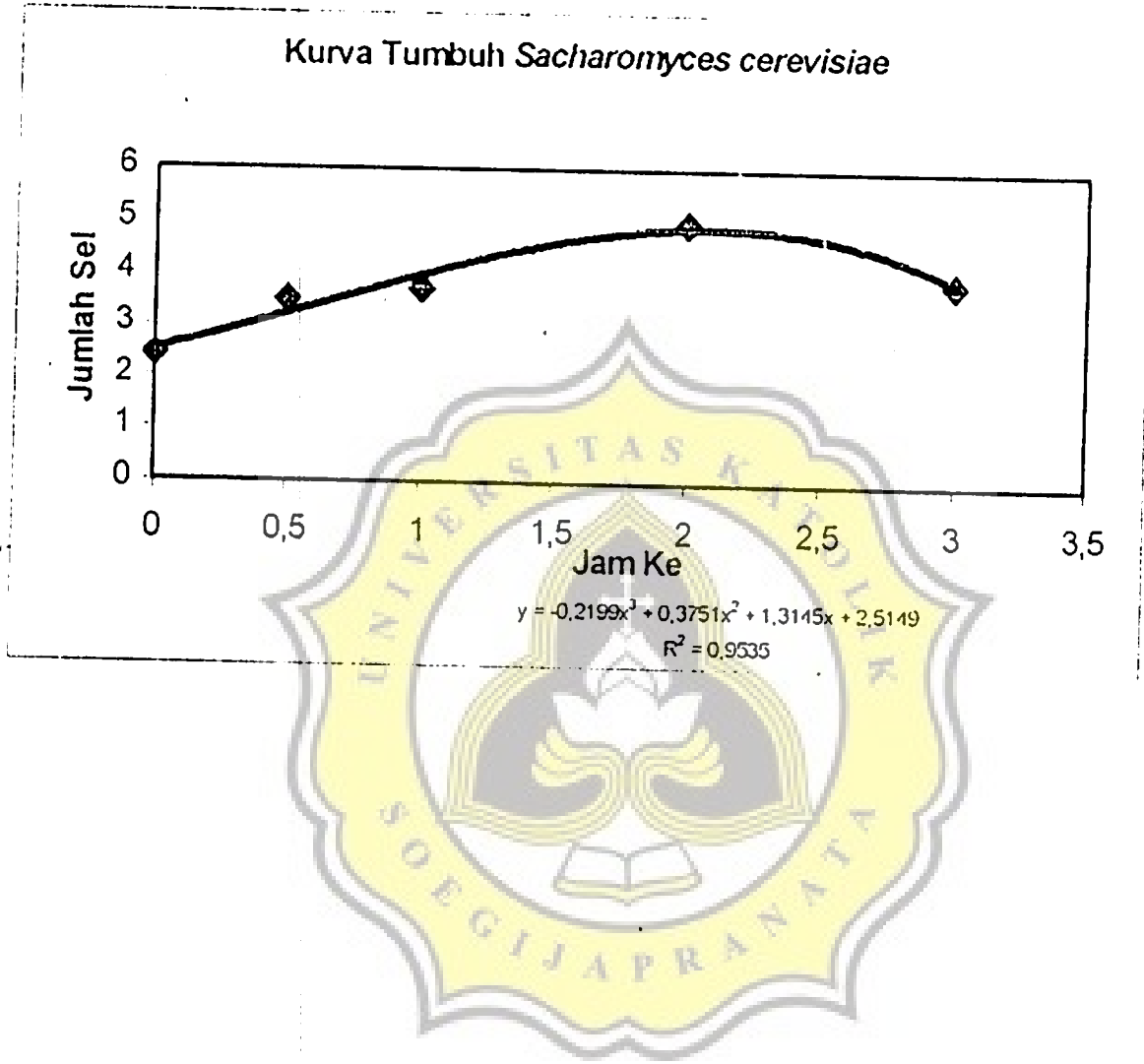
- $K_2Cr_2O_7$ 0,7N 60ml
- H_2SO_4 20ml
- Aquades 20ml

Diencerkan sampai volume 100ml

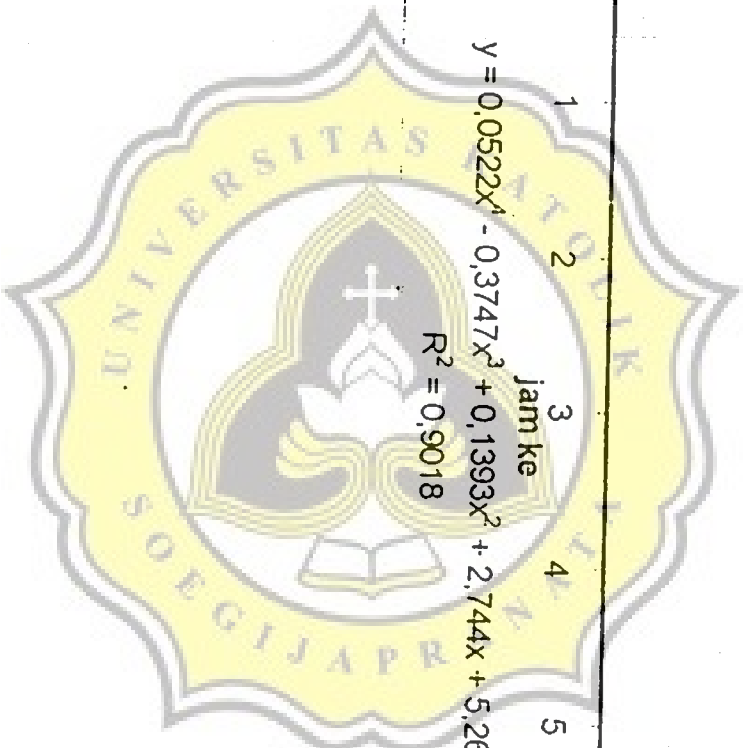
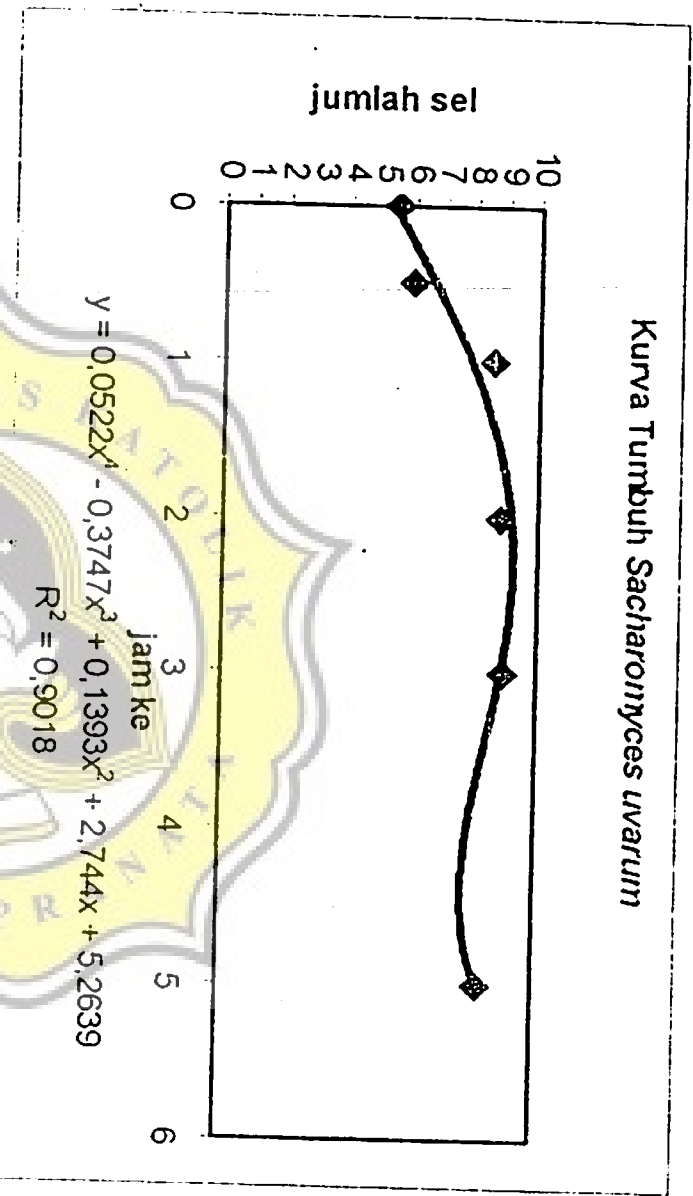
3. Media Fermentasi

Kulit buah pisang diblansir selama 10 menit pada suhu $100^\circ C$. Setelah itu dipotong-potong dan dihaluskan dengan blender. Bubur kulit buah pisang disaring dengan kain saring sehingga diperoleh sari kulit buah pisang. Sari kulit buah pisang yang diperoleh ditambah air dengan perbandingan sari kulit buah pisang dan air 1:2, 1:3 dan 1:4 sebanyak tiga ulangan, lalu disterilisasi. Kemudian media kulit buah pisang yang diperoleh ditambah dengan larutan gula steril sehingga kadar gula akhir menjadi 15% dan pH awal media adalah 4,0-4,5 berdasarkan pH optimum untuk pertumbuhan sel khamir (Sa'id, 1987).

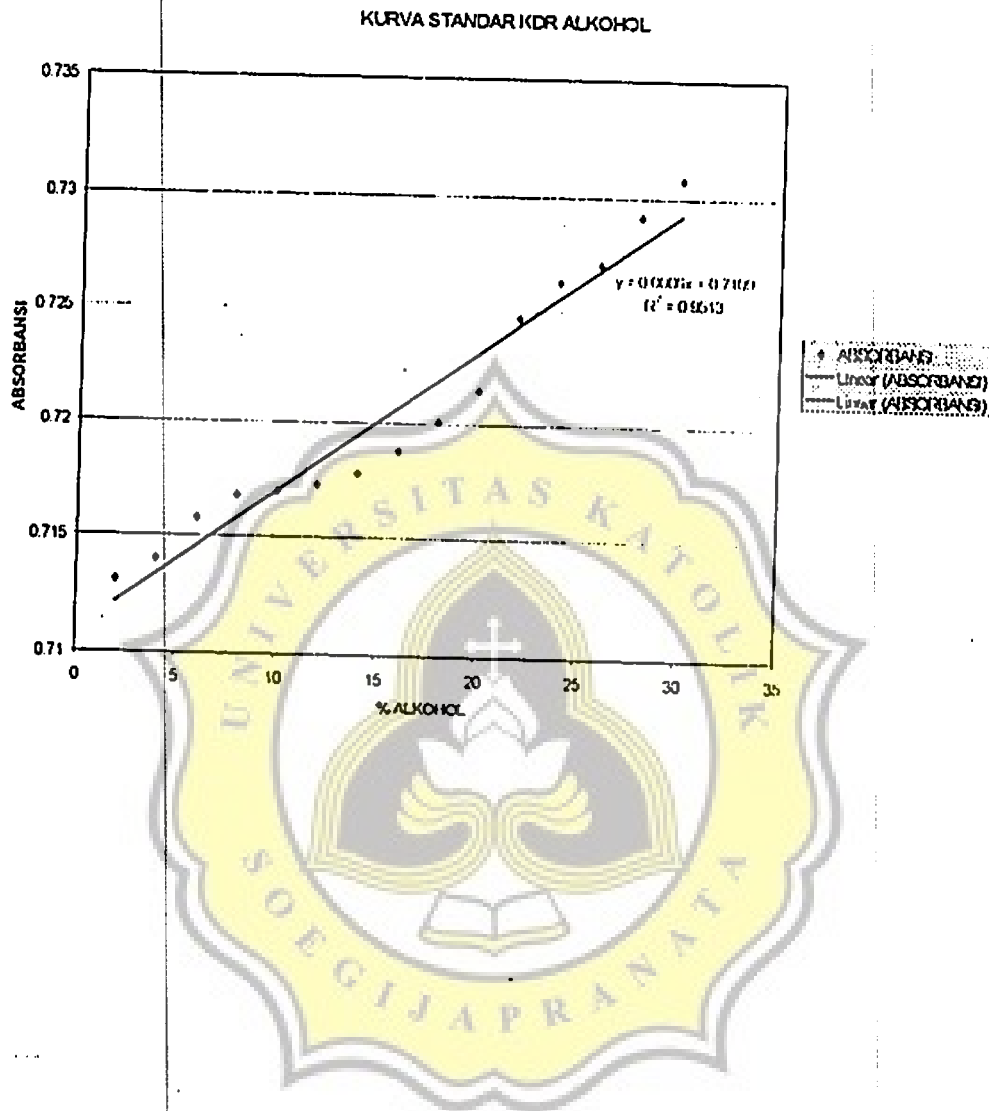
LAMPIRAN 2. Kurva Tumbuh Kultur *Saccharomyces cerevisiae*



LAMPIRAN 3. Kurva Tumbuh Kultur *Saccharomyces uvarum*



LAMPIRAN 4. Kurva Standar Kadar Alkohol



LAMPIRAN 5. Kuisisioner Uji Organoleptik

LEMBAR KUISISIONER

Umur :

Tanggal pengujian :

Terima kasih sebelumnya atas kesediaan Saudara/i menjadi panelis dalam uji organoleptik saya. Saat ini dihadapan Saudara/i terdapat sampel produk minuman beralkohol. Anda dimohon untuk menilai tingkat kesukaan berdasarkan rasa, aroma dan kejernihan dari sampel tersebut dengan memberi nilai pada setiap sampel sebagai berikut:

3 = sangat suka

2 = suka

1 = tidak suka

Penulisan nilai tingkat kesukaan rasa, aroma dan kejernihan sesuai dengan deretan kode masing-masing sampel.

Kode sampel	Rasa	Aroma	Kejernihan
729			
315			
864			
231			
894			
762			

LAMPIRAN 6. Anova Kadar Gula, pH dan Alkohol Kultur *S. cerevisiae*

Post Hoc Tests Homogeneous Subsets

kadar gula

Duncan^a

KULTUR	N	Subset for alpha = .05
		1
Sacharomyces cerevisiae 1:3	3	3.0000
Sacharomyces cerevisiae 1:4	3	3.0000
Sacharomyces cerevisiae 1:2	3	3.8333
Sig.		.067

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

pH

Duncan^a

KULTUR	N	Subset for alpha = .05	
		1	2
Sacharomyces cerevisiae 1:4	3	4.5800	
Sacharomyces cerevisiae 1:3	3	5.1200	
Sacharomyces cerevisiae 1:2	3		5.9867
Sig.		.162	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

ALK1

Duncan^a

KULTUR	N	Subset for alpha = .05
		1
Sacharomyces cerevisiae 1:2	3	7.2400
Sacharomyces cerevisiae 1:4	3	7.2433
Sacharomyces cerevisiae 1:3	3	7.2467
Sig.		.549

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

LAMPIRAN 7. Anova Kadar Gula, pH dan Alkohol Kultur *S. uvarum*

Post Hoc Tests Homogeneous Subsets

Kadar gula

Duncan^a

KULTUR	N	Subset for alpha = .05	
		1	2
Sacharomyces uvarum 1:4	3	2.5000	
Sacharomyces uvarum 1:3	3	2.6667	
Sacharomyces uvarum 1:2	3		3.0000
Sig.		.267	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

pH

Duncan^a

KULTUR	N	Subset for alpha = .05		
		1	2	3
Sacharomyces uvarum 1:4	3	4.4167		
Sacharomyces uvarum 1:3	3		4.4833	
Sacharomyces uvarum 1:2	3			4.6900
Sig.		1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

%alkohol

Duncan^a

KULTUR	N	Subset for alpha = .05
		1
Sacharomyces uvarum 1:3	3	7.2333
Sacharomyces uvarum 1:2	3	7.2367
Sacharomyces uvarum 1:4	3	7.2400
Sig.		.145

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

LAMPIRAN 8. Perbandingan Anova Kadar Gula, pH dan Alkohol Kultur *S. cerevisiae* dan Kultur *S. uvarum*

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
kadar gula	.223	18	.018	.836	18	.010**
pH	.263	18	.002	.792	18	.010**
%alkohol	.389	18	.000	.669	18	.010**

** . This is an upper bound of the true significance.

a. Lilliefors Significance Correction

Oneway

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
kadar gula	Between Groups	3.167	5	.633	5.700	.006
	Within Groups	1.333	12	.111		
	Total	4.500	17			
pH	Between Groups	5.341	5	1.069	12.307	.000
	Within Groups	1.042	12	8.680E-02		
	Total	6.383	17			
%alkohol	Between Groups	3.333E-04	5	6.667E-05	.750	.602
	Within Groups	1.067E-03	12	8.889E-05		
	Total	1.400E-03	17			

Post Hoc Tests

Homogeneous Subsets

kadar gula

Duncan^a

PERLAK	N	Subset for alpha = .05	
		1	2
1:4 <i>S. uvarum</i>	3	2.5000	
1:3 <i>S. uvarum</i>	3	2.6667	
1:3 <i>S. cerevisiae</i>	3	3.0000	
1:4 <i>S. cerevisiae</i>	3	3.0000	
1:2 <i>S. uvarum</i>	3	3.0000	
1:2 <i>S. cerevisiae</i>	3		3.8333
Sig.		.119	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

pH

Duncan^a

PERLAK	N	Subset for alpha = .05		
		1	2	3
1:4 S. uvarum	3	4.4167		
1:3 S. uvarum	3	4.4833		
1:4 S. cerevisiae	3	4.5800	4.5800	
1:2 S. uvarum	3	4.6900	4.6900	
1:3 S. cerevisiae	3		5.1200	
1:2 S. cerevisiae	3			5.9867
Sig.		.313	.053	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

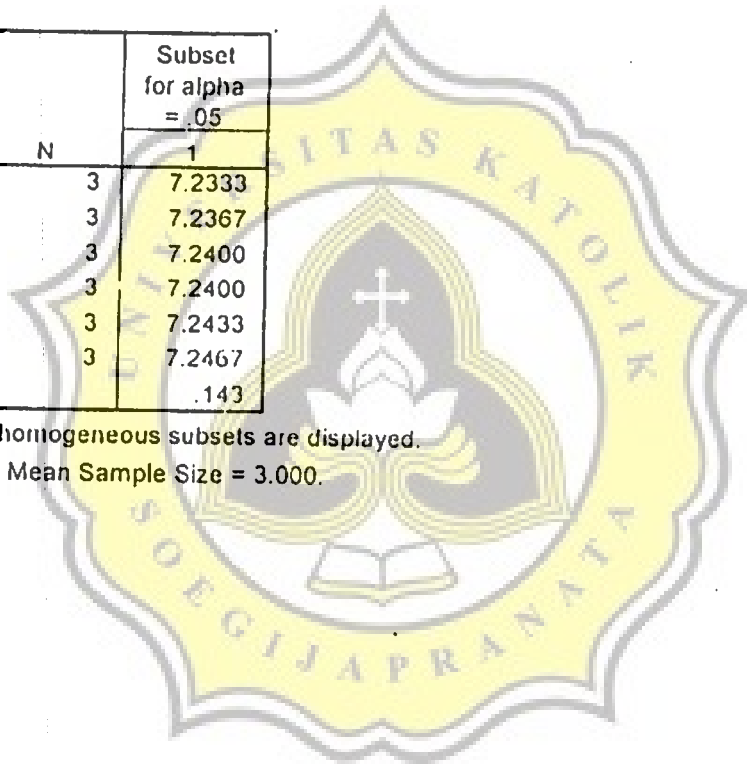
%alkohol

Duncan^a

PERLAK	N	Subset for alpha = .05
		1
1:3 S. uvarum	3	7.2333
1:2 S. uvarum	3	7.2367
1:2 S. cerevisiae	3	7.2400
1:4 S. uvarum	3	7.2400
1:4 S. cerevisiae	3	7.2433
1:3 S. cerevisiae	3	7.2467
Sig.		.143

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.



Sacharomyces cerevisiae

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
kadar gula	.208	9	.200*	.903	9	.330
pH	.180	9	.200*	.937	9	.516
ALK1	.167	9	.200*	.942	9	.573

*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

Oneway

Descriptives

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
kadar gula								
Sacharomyces cerevisiae 1:2	3	3.8333	.2887	.1667	3.1162	4.5504	3.50	4.00
Sacharomyces cerevisiae 1:3	3	3.0000	.5000	.2887	1.7579	4.2421	2.50	3.50
Sacharomyces cerevisiae 1:4	3	3.0000	.5000	.2887	1.7579	4.2421	2.50	3.50
Total	9	3.2778	.5652	.1884	2.8433	3.7122	2.50	4.00
pH								
Sacharomyces cerevisiae 1:2	3	5.9867	.3668	.2118	5.0755	6.8978	5.70	6.40
Sacharomyces cerevisiae 1:3	3	5.1200	.5378	.3105	3.7841	6.4559	4.50	5.46
Sacharomyces cerevisiae 1:4	3	4.5800	.3064	.1769	3.8183	5.3412	4.36	4.93
Total	9	5.2289	.7121	.2374	4.6815	5.7763	4.36	6.40
ALK1								
Sacharomyces cerevisiae 1:2	3	7.2400	.0000	.0000	7.2400	7.2400	7.24	7.24
Sacharomyces cerevisiae 1:3	3	7.2457	2.082E-02	1.202E-02	7.1950	7.2984	7.23	7.27
Sacharomyces cerevisiae 1:4	3	7.2433	5.774E-03	3.333E-03	7.2290	7.2577	7.24	7.25
Total	9	7.2433	1.118E-02	3.727E-03	7.2347	7.2519	7.23	7.27

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
kadar gula	Between Groups	1.389	2	.694	3.571	.095
	Within Groups	1.167	6	.194		
	Total	2.556	8			
pH	Between Groups	3.021	2	1.511	8.755	.017
	Within Groups	1.035	6	.173		
	Total	4.057	8			
ALK1	Between Groups	6.667E-05	2	3.333E-05	.214	.813
	Within Groups	9.333E-04	6	1.556E-04		
	Total	1.000E-03	8			

Sacharomyces uvarum

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
pH	.225	9	.200*	.866	9	.139
Kadar gula	.192	9	.200*	.918	9	.410
%alkohol	.189	9	.200*	.934	9	.497

*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

Oneway

Descriptives

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum	
					Lower Bound	Upper Bound			
Kadar gula	Sacharomyces uvarum 1:2	3	3.0000	.0000	.0000	3.0000	3.0000	3.00	3.00
	Sacharomyces uvarum 1:3	3	2.6667	.2887	.1667	1.9496	3.3838	2.50	3.00
	Sacharomyces uvarum 1:4	3	2.5000	.0000	.0000	2.5000	2.5000	2.50	2.50
	Total	9	2.7222	.2635	8.784E-02	2.5197	2.9248	2.50	3.00
pH	Sacharomyces uvarum 1:2	3	4.6900	3.464E-02	2.000E-02	4.6033	4.7761	4.67	4.73
	Sacharomyces uvarum 1:3	3	4.4833	3.786E-02	2.186E-02	4.3893	4.5774	4.44	4.51
	Sacharomyces uvarum 1:4	3	4.4167	2.309E-02	1.333E-02	4.3593	4.4740	4.39	4.43
	Total	9	4.5300	.1266	1.220E-02	4.4327	4.6273	4.39	4.73
%alkohol	Sacharomyces uvarum 1:2	3	7.2367	5.774E-03	3.333E-03	7.2223	7.2510	7.23	7.24
	Sacharomyces uvarum 1:3	3	7.2333	5.774E-03	3.333E-03	7.2190	7.2477	7.23	7.24
	Sacharomyces uvarum 1:4	3	7.2400	.0000	.0000	7.2400	7.2400	7.24	7.24
	Total	9	7.2367	5.000E-03	1.667E-03	7.2328	7.2405	7.23	7.24

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
Kadar gula	Between Groups	.389	2	.194	7.000	.027
	Within Groups	.167	6	2.778E-02		
	Total	.556	8			
pH	Between Groups	.122	2	6.093E-02	57.726	.000
	Within Groups	6.333E-03	6	1.056E-03		
	Total	.128	8			
%alkohol	Between Groups	6.667E-05	2	3.333E-05	1.500	.296
	Within Groups	1.333E-04	6	2.222E-05		
	Total	2.000E-04	8			

LAMPIRAN 9. Tabulasi Silang Rasa

perlakuan * rasa Crosstabulation

			rasa			Total
			tidak suka	suka	sangat suka	
perlakuan	1:2 Sacharomyces uvarum	Count	9	10	1	20
		% within perlakuan	45.0%	50.0%	5.0%	100.0%
		% within rasa	17.0%	20.0%	5.9%	16.7%
		% of Total	7.5%	8.3%	.8%	16.7%
	1:3 Sacharomyces uvarum	Count	8	7	5	20
		% within perlakuan	40.0%	35.0%	25.0%	100.0%
		% within rasa	15.1%	14.0%	29.4%	16.7%
		% of Total	6.7%	5.8%	4.2%	16.7%
	1:4 Sacharomyces uvarum	Count	8	10	2	20
		% within perlakuan	40.0%	50.0%	10.0%	100.0%
		% within rasa	15.1%	20.0%	11.8%	16.7%
		% of Total	6.7%	8.3%	1.7%	16.7%
1:2 Sacharomyces cerevisiae	Count	11	8	1	20	
	% within perlakuan	55.0%	40.0%	5.0%	100.0%	
	% within rasa	20.8%	15.0%	5.9%	16.7%	
	% of Total	9.2%	6.7%	.8%	16.7%	
1:3 Sacharomyces cerevisiae	Count	8	8	4	20	
	% within perlakuan	40.0%	40.0%	20.0%	100.0%	
	% within rasa	15.1%	16.0%	23.5%	16.7%	
	% of Total	6.7%	6.7%	3.3%	16.7%	
1:4 Sacharomyces cerevisiae	Count	9	7	4	20	
	% within perlakuan	45.0%	35.0%	20.0%	100.0%	
	% within rasa	17.0%	14.0%	23.5%	16.7%	
	% of Total	7.5%	5.8%	3.3%	16.7%	
Total	Count	53	50	17	120	
	% within perlakuan	44.2%	41.7%	14.2%	100.0%	
	% within rasa	100.0%	100.0%	100.0%	100.0%	
	% of Total	44.2%	41.7%	14.2%	100.0%	

LAMPIRAN 10. Tabulasi Silang Aroma

perlakuan * aroma Crosstabulation

			aroma			Total
			tidak suka	suka	sangat suka	
perlakuan 1:2	Sacharomyces uvarum	Count	5	10	5	20
		% within perlakuan	25.0%	50.0%	25.0%	100.0%
		% within aroma	15.2%	17.9%	16.1%	16.7%
		% of Total	4.2%	8.3%	4.2%	16.7%
1:3	Sacharomyces uvarum	Count	2	13	5	20
		% within perlakuan	10.0%	65.0%	25.0%	100.0%
		% within aroma	6.1%	23.2%	16.1%	16.7%
		% of Total	1.7%	10.8%	4.2%	16.7%
1:4	Sacharomyces uvarum	Count	5	10	5	20
		% within perlakuan	25.0%	50.0%	25.0%	100.0%
		% within aroma	15.2%	17.9%	16.1%	16.7%
		% of Total	4.2%	8.3%	4.2%	16.7%
1:2	Sacharomyces cerevisiae	Count	11	8	1	20
		% within perlakuan	55.0%	40.0%	5.0%	100.0%
		% within aroma	33.3%	14.3%	3.2%	16.7%
		% of Total	9.2%	6.7%	0.8%	16.7%
1:3	Sacharomyces cerevisiae	Count	6	7	5	20
		% within perlakuan	30.0%	45.0%	25.0%	100.0%
		% within aroma	18.2%	16.1%	16.1%	16.7%
		% of Total	5.0%	7.5%	4.2%	16.7%
1:4	Sacharomyces cerevisiae	Count	4	6	10	20
		% within perlakuan	20.0%	30.0%	50.0%	100.0%
		% within aroma	12.1%	10.7%	32.3%	16.7%
		% of Total	3.3%	5.0%	9.3%	16.7%
Total		Count	33	56	31	120
		% within perlakuan	27.5%	46.7%	25.8%	100.0%
		% within aroma	100.0%	100.0%	100.0%	100.0%
		% of Total	27.5%	46.7%	25.8%	100.0%

LAMPIRAN 11. Tabulasi Silang Kejernihan

perlakuan * kejernihan Crosstabulation

			kejernihan			Total
			tidak suka	suka	sangat suka	
perlakuan 1:2 Sacharomyces uvarum	Count		3	15	2	20
	% within perlakuan		15.0%	75.0%	10.0%	100.0%
	% within kejernihan		12.5%	27.8%	4.8%	16.7%
	% of Total		2.5%	12.5%	1.7%	16.7%
1:3 Sacharomyces uvarum	Count		2	10	8	20
	% within perlakuan		10.0%	50.0%	40.0%	100.0%
	% within kejernihan		8.3%	18.5%	19.0%	16.7%
	% of Total		1.7%	8.3%	6.7%	16.7%
1:4 Sacharomyces uvarum	Count			4	16	20
	% within perlakuan			20.0%	80.0%	100.0%
	% within kejernihan			7.4%	38.1%	16.7%
	% of Total			3.3%	13.3%	16.7%
1:2 Sacharomyces cerevisiae	Count		3	15	2	20
	% within perlakuan		15.0%	75.0%	10.0%	100.0%
	% within kejernihan		12.5%	27.8%	4.8%	16.7%
	% of Total		2.5%	12.5%	1.7%	16.7%
1:3 Sacharomyces cerevisiae	Count		16	3	1	20
	% within perlakuan		80.0%	15.0%	5.0%	100.0%
	% within kejernihan		66.7%	5.6%	2.4%	16.7%
	% of Total		13.3%	2.5%	0.8%	16.7%
1:4 Sacharomyces cerevisiae	Count			7	13	20
	% within perlakuan			35.0%	65.0%	100.0%
	% within kejernihan			13.0%	31.0%	16.7%
	% of Total			5.8%	10.8%	16.7%
Total	Count		24	54	42	120
	% within perlakuan		20.0%	45.0%	35.0%	100.0%
	% within kejernihan		100.0%	100.0%	100.0%	100.0%
	% of Total		20.0%	45.0%	35.0%	100.0%

Descriptives

			Statistic	Std. Error
kadar gula	Mean		3.0000	.1213
	95% Confidence Interval for Mean	Lower Bound	2.7441	
		Upper Bound	3.2559	
	5% Trimmed Mean		2.9722	
	Median		3.0000	
	Variance		.265	
	Std. Deviation		.5145	
	Minimum		2.50	
	Maximum		4.00	
	Range		1.50	
	Interquartile Range		1.0000	
	Skewness		.729	.536
	Kurtosis		-.472	1.038
pH	Mean		4.8794	.1444
	95% Confidence Interval for Mean	Lower Bound	4.5747	
		Upper Bound	5.1842	
	5% Trimmed Mean		4.8238	
	Median		4.5900	
	Variance		.375	
	Std. Deviation		.6128	
	Minimum		4.36	
	Maximum		6.40	
	Range		2.04	
	Interquartile Range		.9775	
	Skewness		1.313	.536
	Kurtosis		.703	1.038
% alkohol	Mean		.784250	5.95E-03
	95% Confidence Interval for Mean	Lower Bound	.771693	
		Upper Bound	.796807	
	5% Trimmed Mean		.787200	
	Median		.790050	
	Variance		6.376E-04	
	Std. Deviation		2.53E-02	
	Minimum		.6986	
	Maximum		.8168	
	Range		.1182	
	Interquartile Range		1.85E-02	
	Skewness		-2.395	.536
	Kurtosis		7.902	1.038

Univariate Analysis of Variance

Tests of Between-Subjects Effects

Dependent Variable: kadar gula

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	3.167 ^a	5	.633	5.700	.006
Intercept	162.000	1	162.000	1458.000	.000
PENGENC	1.583	2	.792	7.125	.009
KULTUR	1.389	1	1.389	12.500	.004
PENGENC * KULTUR	.194	2	9.722E-02	.875	.442
Error	1.333	12	.111		
Total	166.500	18			
Corrected Total	4.500	17			

a. R Squared = .704 (Adjusted R Squared = .580)

Tests of Between-Subjects Effects

Dependent Variable: pH

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	5.341 ^a	5	1.068	12.307	.000
Intercept	428.562	1	428.562	4937.346	.000
PENGENC	2.171	2	1.086	12.507	.001
KULTUR	2.198	1	2.198	25.323	.000
PENGENC * KULTUR	.972	2	.486	5.599	.019
Error	1.042	12	8.680E-02		
Total	434.945	18			
Corrected Total	6.383	17			

a. R Squared = .837 (Adjusted R Squared = .769)

Tests of Between-Subjects Effects

Dependent Variable: % alkohol

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	2.397E-03 ^a	5	4.794E-04	.681	.646
Intercept	11.071	1	11.071	15735.359	.000
PENGENC	3.084E-04	2	1.542E-04	.219	.806
KULTUR	1.774E-03	1	1.774E-03	2.522	.138
PENGENC * KULTUR	3.146E-04	2	1.573E-04	.224	.803
Error	8.443E-03	12	7.036E-04		
Total	11.082	18			
Corrected Total	1.084E-02	17			

a. R Squared = .221 (Adjusted R Squared = -.103)

**Post Hoc Tests
pengenceran
Homogeneous Subsets**

kadar gula

Duncan ^{a,b}

pengenceran	N	Subset	
		1	2
1:4	6	2.7500	
1:3	6	2.8333	
1:2	6		3.4167
Sig.		.673	1.000

Means for groups in homogeneous subsets are displayed.
Based on Type III Sum of Squares

The error term is Mean Square(Error) = .111.

a. Uses Harmonic Mean Sample Size = 6.000

b. Alpha = .05.

**Post Hoc Tests
pengenceran
Homogeneous Subsets**

pH

Duncan ^{a,b}

pengenceran	N	Subset	
		1	2
1:4	6	4.4983	
1:3	6	4.8017	
1:2	6		5.3383
Sig.		.100	1.000

Means for groups in homogeneous subsets are displayed.
Based on Type III Sum of Squares

The error term is Mean Square(Error) = 8.680E-02.

a. Uses Harmonic Mean Sample Size = 6.000.

b. Alpha = .05.

**Post Hoc Tests
pengenceran
Homogeneous Subsets**

% alkohol

Duncan ^{a,b}

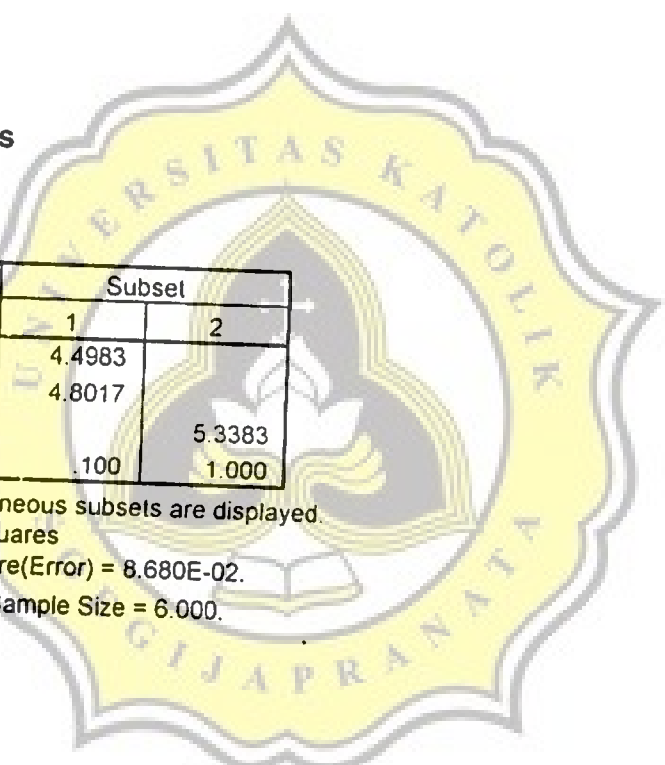
pengenceran	N	Subset
		1
1:3	6	.780667
1:4	6	.782033
1:2	6	.790050
Sig.		.571

Means for groups in homogeneous subsets are displayed.
Based on Type III Sum of Squares

The error term is Mean Square(Error) = 7.036E-04.

a. Uses Harmonic Mean Sample Size = 6.000.

b. Alpha = .05.



Post Hoc Tests Homogeneous Subsets

GULA

Duncan^{a,b}

PERLAK	N	Subset for alpha = .05	
		1	2
1:4 S. uvarum	3	2.5000	
1:3 S. uvarum	3	2.6667	
1:3 S. cerevisiae	3	3.0000	
1:4 S. cerevisiae	3	3.0000	
1:2 S. uvarum	3	3.0000	
1:2 S. cerevisiae	2		3.7500
Sig.		.144	1.000

Means for groups in homogeneous subsets are displayed.

- Uses Harmonic Mean Sample Size = 2.769.
- The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.

PH

Duncan^{a,b}

PERLAK	N	Subset for alpha = .05		
		1	2	3
1:4 S. uvarum	3	4.4167		
1:3 S. uvarum	3	4.4833		
1:4 S. cerevisiae	3	4.5800	4.5800	
1:2 S. uvarum	3	4.6900	4.6900	
1:3 S. cerevisiae	3		5.1200	
1:2 S. cerevisiae	2			6.1300
Sig.		.323	.059	1.000

Means for groups in homogeneous subsets are displayed.

- Uses Harmonic Mean Sample Size = 2.769.
- The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.

ALKOHOL

Duncan^{a,b}

PERLAK	N	Subset for alpha = .05
		1
1:3 S. cerevisiae	3	.7652
1:2 S. corovisiao	2	.7764
1:4 S. cerevisiae	3	.7787
1:4 S. uvarum	3	.7874
1:3 S. uvarum	3	.7961
1:2 S. uvarum	3	.7990
Sig.		.215

Means for groups in homogeneous subsets are displayed.

- Uses Harmonic Mean Sample Size = 2.769.
- The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
kadar gula	.223	18	.018	.836	18	.010**
pH	.263	18	.002	.792	18	.010**
% alkohol	.214	18	.029	.773	18	.010**

** . This is an upper bound of the true significance.

a. Lilliefors Significance Correction

Crosstabs

Case Processing Summary

	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
perlakuan * rasa	120	85.7%	20	14.3%	140	100.0%
perlakuan * aroma	120	85.7%	20	14.3%	140	100.0%
perlakuan * kejernihan	120	85.7%	20	14.3%	140	100.0%

