

## 7. LAMPIRAN

### Lampiran 1. Media yang digunakan untuk Pembuatan Inokulum, Analisis Jumlah Koloni Bakteri, serta Uji Aktivitas Antimikroba dan Bakteriosin

#### 1.1 Media deMan Rogosa Sharpe Broth (MRS-B) “Merck”

Media ini dibuat dengan melarutkan 52,2 g bubuk media MRSB ke dalam 1 L aquades, dan kemudian diaduk hingga benar-benar larut. Setelah itu dilakukan sterilisasi media tersebut menggunakan *autoclave* dengan suhu 121°C selama 15 menit. Komposisi media ini antara lain: 10 g/L kasein atau daging pepton, 8 g/L ekstrak daging, 20 g/L D(+)-glukosa, 5 g/L *sodium acetate*, 4 g/L ekstrak ragi, 2 g/L *diammonium hydrogen citrate*, 2 g/L *dipotassium hydrogen phosphate*, 0,2 g/L magnesium sulfat, 0,04 g/L mangan sulfat, dan 1 g/L *Tween 80*.

#### 1.2 Media deMan Rogosa Sharpe Agar (MRS-A) “Merck”

Media ini dibuat dengan melarutkan 68,2g bubuk media MRSA ke dalam 1 L aquades, dan kemudian diaduk dengan *stirrer* sambil dipanaskan pada *hotplate* hingga benar-benar larut dan mendidih. Setelah itu dilakukan sterilisasi media tersebut menggunakan *autoclave* dengan suhu 121°C selama 15 menit. Komposisi media ini antara lain: 14 g/L agar-agar, 10 g/L kasein atau daging pepton, 10 g/L ekstrak daging, 20 g/L D(+)-glukosa, 5 g/L *sodium acetate*, 4 g/L ekstrak ragi, 2 g/L *diammonium hydrogen citrate*, 2 g/L *dipotassium hydrogen phosphate*, 0,2 g/L magnesium sulfat, 0,04 g/L mangan sulfat, dan 1 g/L *Tween 80*.

#### 1.3 Media Nutrient Broth (NB) “Merck”

Media ini dibuat dengan melarutkan 8 g bubuk media NB ke dalam 1 L aquades, dan kemudian diaduk hingga benar-benar larut. Setelah itu dilakukan sterilisasi media tersebut menggunakan *autoclave* dengan suhu 121°C selama 15 menit. Komposisi media ini antara lain: 3 g/L ekstrak daging dan 5 g/L pepton dari daging.

#### 1.4 Media Nutrient Agar (NA) “Merck”

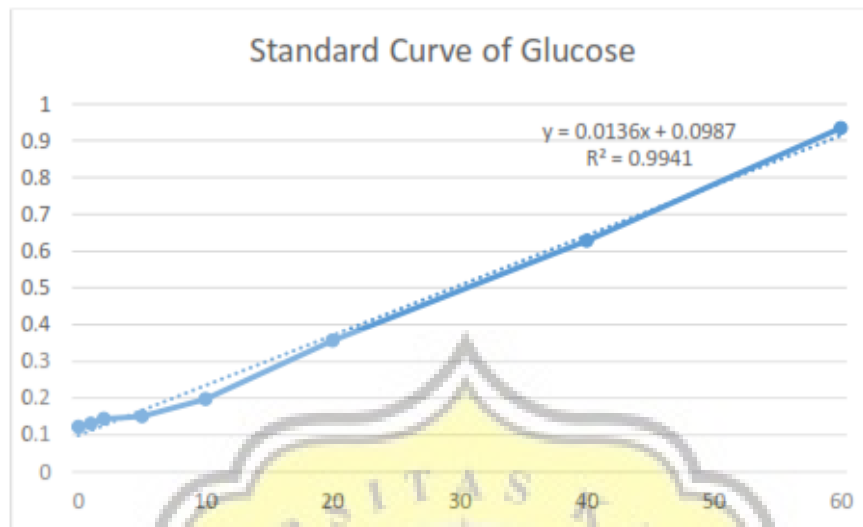
Media ini dibuat dengan melarutkan 20 g bubuk media NA ke dalam 1 L aquades, dan kemudian diaduk dengan *stirrer* sambil dipanaskan pada *hotplate* hingga benar-benar larut dan mendidih. Setelah itu dilakukan sterilisasi media tersebut menggunakan *autoclave* dengan suhu 121°C selama 15 menit. Komposisi media ini antara lain: 12 g/L agar-agar, 3 g/L ekstrak daging dan 5 g/L pepton dari daging.



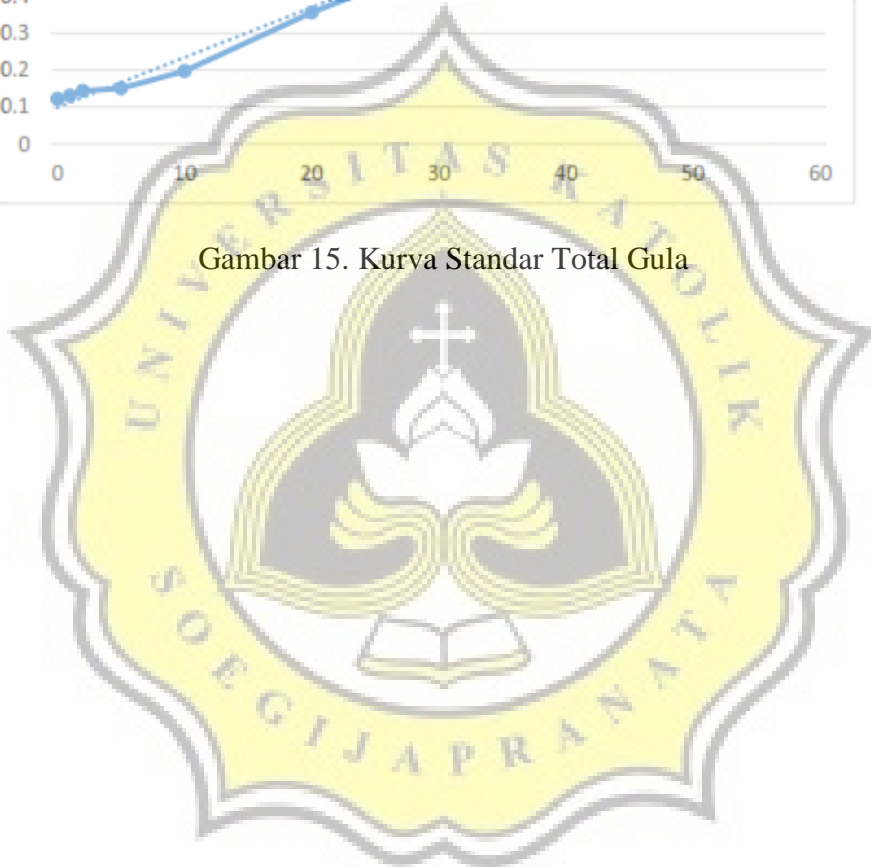
### Lampiran 2. Komposisi Larutan Standar McFarland 3

Larutan standar McFarland 3 digunakan untuk menentukan jumlah bakteri patogen pada pengujian aktivitas antimikroba dan bakteriosin. Larutan ini setara dengan jumlah bakteri  $900 \text{ CFU} (\times 10^6 / \text{mL})$ . Larutan ini dapat dibuat dengan mencampurkan 9,7 ml dari 1%  $\text{H}_2\text{SO}_4$  dengan 0,3 ml dari 1%  $\text{BaCl}_2$ .



**Lampiran 3. Kurva Standar Total Gula**

Gambar 15. Kurva Standar Total Gula



#### Lampiran 4. Analisis Statistik Aktivitas Antioksidan DPPH

#### Uji Normalitas dan Homogenitas (*Lactobacillus pentosus* LLA18 dan Kultur Campuran merk “Yogourmet”)

##### Tests of Normality

	Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
NORMALITASDPPHA18	.069	60	.200 <sup>*</sup>	.979	60	.395

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

a. Lilliefors Significance Correction

##### Test of Homogeneity of Variances

	Levene Statistic	df1	df2	Sig.
INSTAN	.002	2	27	.998
A18	.134	2	27	.875

#### Analisa one-way ANOVA (antar waktu fermentasi Kultur Campuran merk “Yogourmet”)

##### INSTAN

Duncan<sup>a</sup>

WAKTUINKUBASI	N	Subset for alpha = .05	
		1	2
0 JAM	10	89.5503	
48 JAM	10		89.9602
24 JAM	10		90.1018
Sig.		1.000	.322

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 10.000.

#### Analisa one-way ANOVA (antar waktu fermentasi *Lactobacillus pentosus* LLA18)

##### A18

Duncan

WAKTUINKUBASI	N	Subset for alpha = 0.05	
		1	2
0 JAM	10	89.0096	
48 JAM	10		90.3877
24 JAM	10		90.4202
Sig.		1.000	.842

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 10.000.

### Analisa Independent T-test (0 jam fermentasi)

#### Fresh dan Pasteurisasi

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
									Lower	Upper
jam_ke_0	Equal variances assumed	1.463	.242	-.127	18	.900	-.01763	.13870	-.30903	.27376
	Equal variances not assumed			-.127	15.554	.900	-.01763	.13870	-.31235	.27708

#### Fresh dan Kultur Campuran merk "Yogourmet"

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
									Lower	Upper
jam_ke_0	Equal variances assumed	.096	.761	2.105	18	.050	.32081	.15243	.00057	.64105
	Equal variances not assumed			2.105	17.571	.050	.32081	.15243	.00000	.64161

#### Fresh dan *Lactobacillus pentosus* LLA18

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
									Lower	Upper
jam_ke_0	Equal variances assumed	.041	.842	5.321	18	.000	.86147	.16190	.52132	1.20162
	Equal variances not assumed			5.321	17.989	.000	.86147	.16190	.52131	1.20163

#### Pasteurisasi dan Kultur Campuran merk "Yogourmet"

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
									Lower	Upper
jam_ke_0	Equal variances assumed	1.165	.295	2.427	18	.026	.30317	.12492	.04072	.56563
	Equal variances not assumed			2.427	16.892	.027	.30317	.12492	.03948	.56687

#### Pasteurisasi dan *Lactobacillus pentosus* LLA18

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
									Lower	Upper
Jam_Ke_0	Equal variances assumed	.855	.367	6.190	18	.000	.84384	.13632	.55743	1.13024
	Equal variances not assumed			6.190	15.777	.000	.84384	.13632	.55451	1.13316

### Kultur Campuran merk “Yogourmet” dan *Lactobacillus pentosus* LLA18

Independent Samples Test

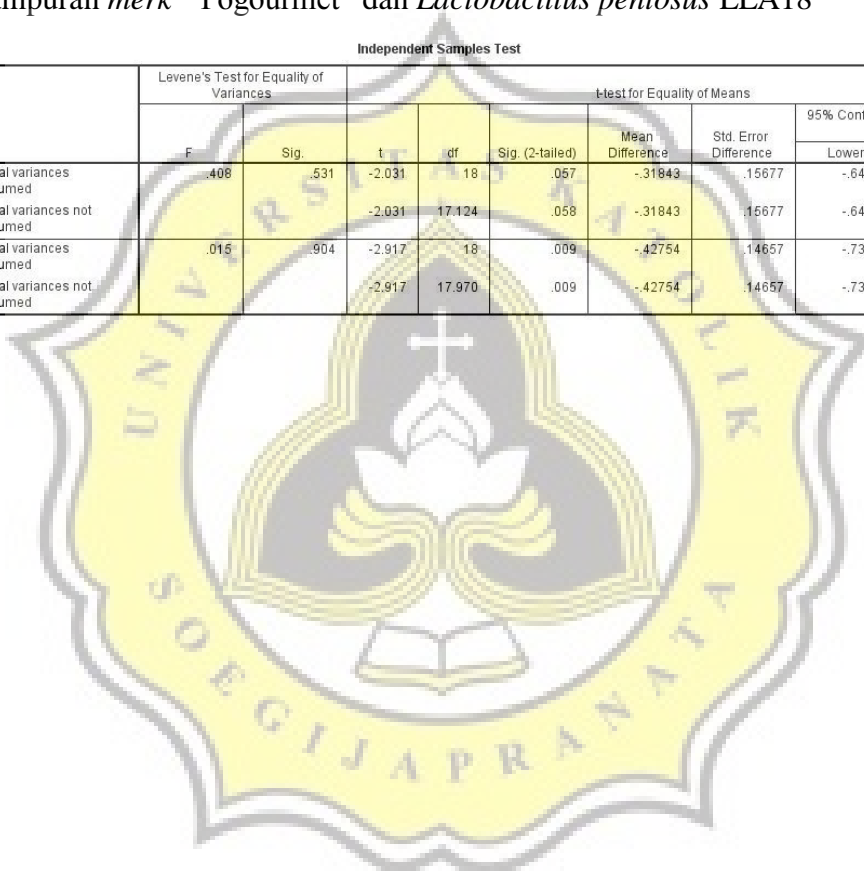
		Levene's Test for Equality of Variances		t-test for Equality of Means						
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
									Lower	Upper
jam_ke_0	Equal variances assumed	.005	.946	3.598	18	.002	.54066	.15027	.22495	.85637
	Equal variances not assumed			3.598	17.692	.002	.54066	.15027	.22456	.85677

### Analisa Independent T-test (24 dan 48 jam fermentasi)

### Kultur Campuran merk “Yogourmet” dan *Lactobacillus pentosus* LLA18

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
									Lower	Upper
jam_ke_24	Equal variances assumed	.408	.531	-2.031	18	.057	-.31843	.15677	-.64778	.01093
	Equal variances not assumed			-2.031	17.124	.058	-.31843	.15677	-.64899	.01214
jam_ke_48	Equal variances assumed	.015	.904	-2.917	18	.009	-.42754	.14657	-.73548	-.11960
	Equal variances not assumed			-2.917	17.970	.009	-.42754	.14657	-.73551	-.11957



## Lampiran 5. Analisis Statistik pH

### Uji Normalitas dan Homogenitas (*Lactobacillus pentosus* LLA18 dan Kultur Campuran merk “Yogourmet”)

Tests of Normality

	Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
NORMALITASA18	.143	36	.061	.905	36	.005

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

	Levene Statistic	df1	df2	Sig.
INSTAN	3.498	2	15	.057
A18	.250	2	15	.782

### Analisa *one-way* ANOVA (antar waktu fermentasi Kultur Campuran merk “Yogourmet”)

INSTAN

Duncan

WAKTUINKUBASI	N	Subset for alpha = 0.05		
		1	2	3
48 JAM	6	3.4867		
24 JAM	6		3.5617	
0 JAM	6			3.6583
Sig.		1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

### Analisa *one-way* ANOVA (antar waktu fermentasi *Lactobacillus pentosus* LLA18)

A18

Duncan

WAKTUINKUBASI	N	Subset for alpha = 0.05		
		1	2	3
48 JAM	6	3.4717		
24 JAM	6		3.5433	
0 JAM	6			3.6367
Sig.		1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.



### Analisa Independent T-test (0 jam fermentasi)

#### Fresh dan Pasteurisasi

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
									Lower	Upper
JAM_KE_0	Equal variances assumed	.417	.533	-3.379	10	.007	-.01833	.00543	-.03042	-.00624
	Equal variances not assumed			-3.379	9.912	.007	-.01833	.00543	-.03044	-.00623

#### Fresh dan Kultur Campuran merk "Yogourmet"

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
									Lower	Upper
JAM_KE_0	Equal variances assumed	1.404	.263	1.978	10	.076	.01000	.00506	-.00126	.02126
	Equal variances not assumed			1.978	9.363	.078	.01000	.00506	-.00137	.02137

#### Fresh dan *Lactobacillus pentosus* LLA18

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
									Lower	Upper
JAM_KE_0	Equal variances assumed	.417	.533	4.973	10	.001	.03167	.00637	.01748	.04586
	Equal variances not assumed			4.973	9.595	.001	.03167	.00637	.01740	.04594

#### Pasteurisasi dan Kultur Campuran merk "Yogourmet"

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
									Lower	Upper
JAM_KE_0	Equal variances assumed	.160	.698	-1.746	10	.111	-.00833	.00477	-.01897	.00230
	Equal variances not assumed			-1.746	9.717	.112	-.00833	.00477	-.01901	.00234

#### Pasteurisasi dan *Lactobacillus pentosus* LLA18

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
									Lower	Upper
Jam_Ke_0	Equal variances assumed	1.250	.290	2.169	10	.055	.01333	.00615	-.00036	.02703
	Equal variances not assumed			2.169	9.204	.058	.01333	.00615	-.00052	.02719

Kultur Campuran merk “Yogourmet” dan *Lactobacillus pentosus* LLA18

Independent Samples Test

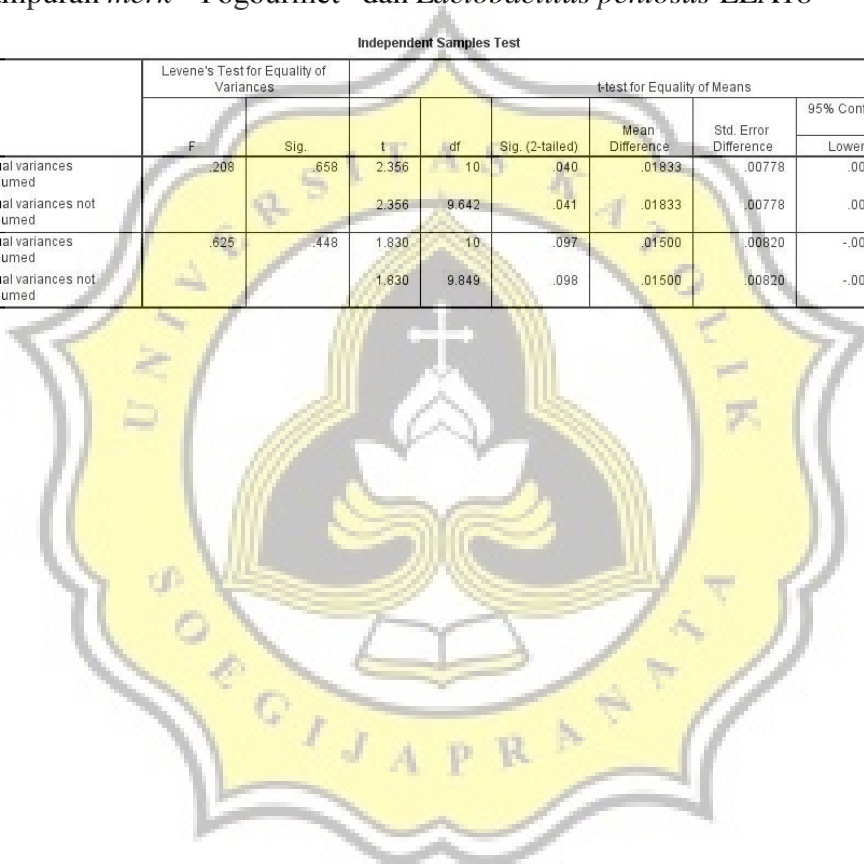
		Levene's Test for Equality of Variances		t-test for Equality of Means						
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
									Lower	Upper
JAM_KE_0	Equal variances assumed	2.560	.141	3.722	10	.004	.02167	.00582	.00870	.03464
	Equal variances not assumed									

**Analisa Independent T-test (24 dan 48 jam fermentasi)**

Kultur Campuran merk “Yogourmet” dan *Lactobacillus pentosus* LLA18

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
									Lower	Upper
JAM_KE_24	Equal variances assumed	.208	.658	2.356	10	.040	.01833	.00778	.00099	.03567
	Equal variances not assumed									
JAM_KE_48	Equal variances assumed	.625	.448	1.830	10	.097	.01500	.00820	-.00327	.03327
	Equal variances not assumed									



## Lampiran 6. Analisis Statistik Total Gula

### Uji Normalitas dan Homogenitas (*Lactobacillus pentosus* LLA18 dan Kultur Campuran merk “Yogourmet”)

#### Tests of Normality

	Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
normalitasA18	.144	36	.055	.943	36	.061

a. Lilliefors Significance Correction

#### Test of Homogeneity of Variances

	Levene Statistic	df1	df2	Sig.
INSTAN	3.219	2	15	.069
A18	2.984	2	15	.081

### Analisa one-way ANOVA (antar waktu fermentasi Kultur Campuran merk “Yogourmet”)

#### INSTAN

Duncan<sup>a</sup>

WAKTUNKUBASI	N	Subset for alpha = .05		
		1	2	3
48 JAM	6	8.2314		
24 JAM	6		8.4814	
0 JAM	6			8.9730
Sig.		1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

### Analisa one-way ANOVA (antar waktu fermentasi *Lactobacillus pentosus* LLA18)

#### A18

Duncan<sup>a</sup>

waktuinkubasi	N	Subset for alpha = 0.05		
		1	2	3
48 jam	6	8.0939		
24 jam	6		8.4235	
0 jam	6			8.8218
Sig.		1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

### Analisa Independent T-test (0 jam fermentasi)

#### Fresh dan Pasteurisasi

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
									Lower	Upper
JAM_KE_0	Equal variances assumed	95.977	.000	-2.461	10	.034	-.16176	.06574	-.30824	-.01529
	Equal variances not assumed			-2.461	5.570	.052	-.16176	.06574	-.32568	.00215

#### Fresh dan Kultur Campuran merk "Yogourmet"

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
									Lower	Upper
JAM_KE_0	Equal variances assumed	6.784	.026	2.474	10	.033	.19240	.07778	.01911	.36570
	Equal variances not assumed			2.474	8.900	.036	.19240	.07778	.01616	.36864

#### Fresh dan *Lactobacillus pentosus* LLA18

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
									Lower	Upper
Jam_Ke_0	Equal variances assumed	12.949	.005	4.628	10	.001	.34363	.07425	.17819	.50907
	Equal variances not assumed			4.628	8.109	.002	.34363	.07425	.17281	.51445

#### Pasteurisasi dan Kultur Campuran merk "Yogourmet"

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
									Lower	Upper
JAM_KE_0	Equal variances assumed	9.394	.012	.654	10	.528	.03064	.04685	-.07376	.13503
	Equal variances not assumed			.654	6.175	.537	.03064	.04685	-.08323	.14450

#### Pasteurisasi dan *Lactobacillus pentosus* LLA18

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
									Lower	Upper
Jam_Ke_0	Equal variances assumed	6.400	.030	4.465	10	.001	.18186	.04073	.09110	.27263
	Equal variances not assumed			4.465	6.597	.003	.18186	.04073	.08433	.27939

### Kultur Campuran merk “Yogourmet” dan *Lactobacillus pentosus* LLA18

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
									Lower	Upper
Jam_Ke_0	Equal variances assumed	.341	.572	2.598	10	.027	.15123	.05820	.02155	.28090
	Equal variances not assumed			2.598	9.756	.027	.15123	.05820	.02111	.28134

### Analisa Independent T-test (24 dan 48 jam fermentasi)

### Kultur Campuran merk “Yogourmet” dan *Lactobacillus pentosus* LLA18

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
									Lower	Upper
jam_ke_24	Equal variances assumed	6.448	.029	.744	10	.474	.05784	.07772	-.11532	.23101
	Equal variances not assumed			.744	9.158	.475	.05784	.07772	-.11751	.23319
jam_ke_48	Equal variances assumed	2.560	.141	2.670	10	.024	.13750	.05151	.02274	.25226
	Equal variances not assumed			2.670	8.945	.026	.13750	.05151	.02087	.25413



## Lampiran 7. Analisis Statistik Uji Sensori

### Analisa Kruskal-Wallis

Ranks			
	sampel	N	Mean Rank
rasa	segar	30	39.95
	Bal Instant	30	47.38
	L. pentosus	30	49.17
	Total	90	
aroma	segar	30	41.87
	Bal Instant	30	44.75
	L. pentosus	30	49.88
	Total	90	
overall	segar	30	41.95
	Bal Instant	30	45.93
	L. pentosus	30	48.62
	Total	90	

Test Statistics <sup>a,b</sup>			
	rasa	aroma	overall
Chi-Square	2.274	1.543	1.079
df	2	2	2
Asymp. Sig.	.321	.462	.583

a. Kruskal Wallis Test

b. Grouping Variable: sampel

### Lampiran 8. Lembar *Worksheet* dan *Scoresheet*

## UJI RATING HEDONIK

Nama : Tanggal :  
 Produk : Minuman Duwet Probiotik No Hp :

Instruksi :

Sebelum dilakukan pengujian sampel dimohon berkumur-kumur terlebih dahulu. Di hadapan Anda telah disediakan 4 sampel minuman duwet probiotik. Cicipi sampel dengan cara diminum dan bandingkan rasa, aroma, dan *overall* dari ke 4 sampel minuman duwet probiotik secara berurutan dari kiri ke kanan. Berikan penilaian sampel (**BOLEH SAMA**) dari yang paling Anda sangat tidak suka (=1), tidak suka (=2), agak suka (=3), suka (=4), dan sangat suka (=5). Anda boleh mengulang mencicipi sampel sesering yang Anda perlukan. Namun, setiap pergantian sampel dimohon berkumur-kumur dengan air putih.

Atribut	Kode Sampel			
Rasa				
Aroma				
<i>Overall</i>				

Terima kasih

### Worksheet Uji Rating Hedonik

Tanggal Uji :

Jenis Sampel : Minuman Duwet Probiotik

#### Identifikasi Sampel

Jenis Sampel	Kode
Sari Duwet <i>Fresh</i>	A
Fermentasi Sari Duwet dengan Kultur Campuran merk "Yogourmet"	B
Fermentasi Sari Duwet dengan <i>Lactobacillus pentosus</i> LLA18	C
Fermentasi Sari Duwet dengan <i>Lactobacillus fermentum</i> LLB3	D

#### Kode kombinasi urutan penyajian :

1 = ABCD	6 = CABD	11 = DCAB
2 = ACBD	7 = CADB	12 = DCBA
3 = ABDC	8 = CBAD	13 = DABC
4 = ADBC	9 = CBDA	14 = DBAC
5 = ACDB	10 = CDAB	15 = DACB

#### Penyajian :

Panelis	Urutan penyajian	Kode Sampel
1, 16	1	862 245 458 396
2, 17	2	123 456 113 567
3, 18	3	635 486 152 665
4, 19	4	797 923 368 712
5, 20	5	778 478 918 581
6, 21	6	542 691 765 965
7, 22	7	369 138 354 984
8, 23	8	537 445 522 925
9, 24	9	100 237 663 794
10, 25	10	110 949 786 397
11, 26	11	355 549 793 345
12, 27	12	183 153 200 611
13, 28	13	459 321 560 136
14, 29	14	734 890 158 333
15, 30	15	155 195 367 900

#### Rekap kode sampel :

Sampel A	862 123 635 797 778 691 138 522 794 786 793 611 321 158 195
Sampel B	245 113 486 368 581 765 984 445 237 397 345 200 560 890 900
Sampel C	458 456 665 712 478 542 369 537 100 110 549 153 136 333 367
Sampel D	396 567 152 923 918 965 354 925 663 949 355 183 459 734 155



### Lampiran 9. Panelis Uji Sensori



Gambar 16. Panelis Uji Sensori



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