

Lampiran 1. *Worksheet Uji Sensori*

WORKSHEET UJI RANKING HEDONIK

Tanggal uji : 3 Desember 2009

Jenis sampel : *Infusion*

Identifikasi Sampel

Infusion dengan konsentrasi I

Infusion dengan konsentrasi II

Infusion dengan konsentrasi III

Kode

A

B

C

Kode Kombinasi Urutan Penyajian

ABC = 1

ACB = 2

BCA = 3

CAB = 4

CBA = 5

ABC = 6

ACB = 7

BCA = 8

CAB = 9

CBA = 10

ABC = 11

ACB = 12

BCA = 13

CAB = 14

CBA = 15

ABC = 16

ACB = 17

BCA = 18

CAB = 19

CBA = 20

ABC = 21

ACB = 22

BCA = 23

CAB = 24

CBA = 25

ABC = 26

ACB = 27

BCA = 28

CAB = 29

CBA = 30

PENYAJIAN

BOOTH	PANELIS	PENYAJIAN			
I	1	111	109	919	¹
II	2	901	888	121	²
III	3	691	131	902	³
IV	4	917	903	141	⁴
I	5	777	791	151	⁵
II	6	904	161	918	⁶
III	7	905	171	891	⁷
IV	8	181	555	906	⁸
I	9	875	191	591	⁹
II	10	225	200	907	¹⁰
III	11	908	321	201	¹¹
IV	12	909	920	211	¹²
I	13	465	493	221	¹³
II	14	394	910	231	¹⁴
III	15	241	530	911	¹⁵
IV	16	912	251	916	¹⁶

I	17	261 444 730	¹⁷
II	18	271 678 913	¹⁸
III	19	281 914 430	¹⁹
IV	20	915 291 666	²⁰
I	21	300 234 217	²¹
II	22	333 343 301	²²
III	23	405 311 222	²³
IV	24	999 100 321	²⁴
I	25	718 476 723	²⁵
II	26	493 839 478	²⁶
III	27	267 840 557	²⁷
IV	28	348 756 559	²⁸
I	29	689 462 841	²⁹
II	30	539 614 367	³⁰

Rekap Kode Sampel

Sampel A	111 901 902 903 151 904 905 906 191 907 908 909 221 910 911 912 261 913 914 666 300 333 222 100 723 493 267 559 462 367
Sampel B	109 121 691 141 791 161 891 181 591 200 321 211 465 231 530 251 730 271 430 291 234 301 405 321 476 839 557 348 841 614
Sampel C	919 888 131 917 777 918 171 555 875 225 201 920 493 394 241 916 444 678 281 915 217 343 311 999 718 478 840 756 689 539

Lampiran 2. Kuesioner Uji Sensori

Nama : _____ Tanggal: _____
 Produk : *Guava Infusion*
 Penilaian untuk : Aroma
 Instruksi :

Di hadapan Anda terdapat 3 sampel *infusion*. Hirup aroma yang keluar dari sampel secara berturutan dari kiri ke kanan. Setelah menghirup semua aroma dari masing-masing sampel, Anda boleh mengulang sesering yang Anda perlukan. Urutkan sampel dari yang paling Anda sukai (=1) hingga sampel yang paling kurang Anda sukai (=3)

Sampel Ranking (jangan ada yang dobel)

Terima kasih

Nama : _____ Tanggal: _____
 Produk : *Guava Infusion*
 Penilaian untuk : Aroma
 Instruksi :

Di hadapan Anda terdapat 3 sampel *infusion*. Hirup aroma yang keluar dari sampel secara berturutan dari kiri ke kanan. Setelah menghirup semua aroma dari masing-masing sampel, Anda boleh mengulang sesering yang Anda perlukan. Urutkan sampel dari yang paling Anda sukai (=1) hingga sampel yang paling kurang Anda sukai (=3)

Sampel Ranking (jangan ada yang dobel)

Terima kasih

Lampiran 3. Analisa *One-Way Anova* Kadar Air

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
wet_basis	Between Groups	.217	2	.108	.112	.896
	Within Groups	5.809	6	.968		
	Total	6.026	8			
dry_basis	Between Groups	.218	2	.109	.112	.896
	Within Groups	5.814	6	.969		
	Total	6.032	8			
ttl_pdtm	Between Groups	.217	2	.108	.112	.896
	Within Groups	5.809	6	.968		
	Total	6.026	8			

wet_basis

Duncan^a

sampel	N	Subset for alpha = .05
		1
2	3	11.0667
3	3	11.2223
1	3	11.4447
Sig.		.664

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

dry_basis

Duncan^a

sampel	N	Subset for alpha = .05
		1
2	3	11.0657
3	3	11.2227
1	3	11.4447
Sig.		.664

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

ttl_pdtn

Duncan^a

sampel	N	Subset for alpha = .05
		1
1	3	88.5553
3	3	88.7777
2	3	88.9333
Sig.		.664

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

Lampiran 4. Analisa *Multivariate* Sampel AMultivariate Tests^c

Effect		Value	F	Hypothesis df	Error df	Sig.
Intercept	Pillai's Trace	1.000	2655820 ^a	4.000	21.000	.000
	Wilks' Lambda	.000	2655820 ^a	4.000	21.000	.000
	Hotelling's Trace	505870.4	2655820 ^a	4.000	21.000	.000
	Roy's Largest Root	505870.4	2655820 ^a	4.000	21.000	.000
suhu	Pillai's Trace	2.710	53.730	12.000	69.000	.000
	Wilks' Lambda	.000	118.467	12.000	55.852	.000
	Hotelling's Trace	79.640	130.521	12.000	59.000	.000
	Roy's Largest Root	51.919	298.536 ^b	4.000	23.000	.000
waktu	Pillai's Trace	1.402	12.898	8.000	44.000	.000
	Wilks' Lambda	.018	33.611 ^a	8.000	42.000	.000
	Hotelling's Trace	30.758	76.895	8.000	40.000	.000
	Roy's Largest Root	29.990	164.945 ^b	4.000	22.000	.000
suhu * waktu	Pillai's Trace	2.362	5.769	24.000	96.000	.000
	Wilks' Lambda	.010	8.631	24.000	74.470	.000
	Hotelling's Trace	13.731	11.156	24.000	78.000	.000
	Roy's Largest Root	9.781	39.123 ^b	6.000	24.000	.000

a. Exact statistic

b. The statistic is an upper bound on F that yields a lower bound on the significance level.

c. Design: Intercept+suhu+waktu+suhu * waktu

Tests of Between-Subjects Effects

Source	Dependent Variable	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	antioksidan	1.182 ^a	11	.107	29.728	.000
	vit_c	87.550 ^b	11	7.959	115.265	.000
	ph	.102 ^c	11	.009	62.839	.000
	L	1035.232 ^d	11	94.112	35.060	.000
Intercept	antioksidan	8.825	1	8.825	2441.028	.000
	vit_c	870.801	1	870.801	12611.040	.000
	ph	1736.250	1	1736.250	1E+007	.000
	L	19879.120	1	19879.120	7405.593	.000
suhu	antioksidan	1.032	3	.344	95.112	.000
	vit_c	37.228	3	12.409	179.713	.000
	ph	.079	3	.026	179.692	.000
	L	943.584	3	314.528	117.171	.000
waktu	antioksidan	.024	2	.012	3.351	.052
	vit_c	42.982	2	21.491	311.237	.000
	ph	.003	2	.002	11.396	.000
	L	21.151	2	10.575	3.940	.033
suhu * waktu	antioksidan	.126	6	.021	5.827	.001
	vit_c	7.340	6	1.223	17.717	.000
	ph	.019	6	.003	21.560	.000
	L	70.498	6	11.750	4.377	.004
Error	antioksidan	.087	24	.004		
	vit_c	1.657	24	.069		
	ph	.004	24	.000		
	L	64.424	24	2.684		
Total	antioksidan	10.094	36			
	vit_c	960.008	36			
	ph	1736.355	36			
	L	20978.776	36			
Corrected Total	antioksidan	1.269	35			
	vit_c	89.207	35			
	ph	.105	35			
	L	1099.656	35			

a. R Squared = .932 (Adjusted R Squared = .900)

b. R Squared = .981 (Adjusted R Squared = .973)

c. R Squared = .966 (Adjusted R Squared = .951)

d. R Squared = .941 (Adjusted R Squared = .915)

Lampiran 5. Analisa Aktivitas Antioksidan Sampel A Secara *Two-Way Anova* pada suhu 25°C-70°C

antioksidan

Duncan^{a,b,c}

suhu	N	Subset			
		1	2	3	4
4	9	.29078			
3	9		.41167		
2	9			.52833	
1	9				.74967
Sig.		1.000	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

Based on Type III Sum of Squares

The error term is Mean Square(Error) = .004.

- Uses Harmonic Mean Sample Size = 9.000.
- The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.
- Alpha = .05.

Lampiran 6. Analisa Kadar Vitamin C Sampel A Secara *Two-Way Anova* pada suhu 25°C-70°C

vit_c

Duncan^{a,b,c}

suhu	N	Subset			
		1	2	3	4
1	9	3.72533			
3	9		4.10667		
2	9			5.76889	
4	9				6.07200
Sig.		1.000	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

Based on Type III Sum of Squares

The error term is Mean Square(Error) = .069.

- Uses Harmonic Mean Sample Size = 9.000.
- The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.
- Alpha = .05.

Lampiran 7. Analisa nilai pH Sampel A Secara *Two-Way Anova* pada suhu 25°C-70°C

ph

Duncan^{a,b,c}

suhu	N	Subset		
		1	2	3
2	9	6.91000		
1	9	6.91889	6.91889	
3	9		6.92444	
4	9			7.02556
Sig.		.133	.341	1.000

Means for groups in homogeneous subsets are displayed.

Based on Type III Sum of Squares

The error term is Mean Square(Error) = .000.

- Uses Harmonic Mean Sample Size = 9.000.
- The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.
- Alpha = .05.

Lampiran 8. Analisa Aktivitas Antioksidan Sampel A Secara *Two-Way Anova* pada waktu 3-5 menit

antioksidan

Duncan^{a,b,c}

waktu	N	Subset	
		1	2
5	12	.46700	
3	12	.48875	.48875
4	12		.52958
Sig.		.384	.109

Means for groups in homogeneous subsets are displayed.

Based on Type III Sum of Squares

The error term is Mean Square(Error) = .004.

- Uses Harmonic Mean Sample Size = 12.000.
- The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.
- Alpha = .05.

Lampiran 9. Analisa Kadar Vitamin C Sampel A Secara *Two-Way Anova* pada waktu 3-5 menit

vit_c

Duncan^{a,b,c}

waktu	N	Subset		
		1	2	3
5	12	3.86467		
4	12		4.46600	
3	12			6.42400
Sig.		1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

Based on Type III Sum of Squares

The error term is Mean Square(Error) = .069.

- Uses Harmonic Mean Sample Size = 12.000.
- The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.
- Alpha = .05.

Lampiran 10. Analisa Nilai pH Sampel A Secara *Two-Way Anova* pada waktu 3-5 menit

ph

Duncan^{a,b,c}

waktu	N	Subset	
		1	2
3	12	6.93417	
5	12	6.94250	
4	12		6.95750
Sig.		.105	1.000

Means for groups in homogeneous subsets are displayed.

Based on Type III Sum of Squares

The error term is Mean Square(Error) = .000.

- Uses Harmonic Mean Sample Size = 12.000.
- The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.
- Alpha = .05.

Lampiran 11. Analisa *Multivariate* pada Sampel BMultivariate Tests^c

Effect		Value	F	Hypothesis df	Error df	Sig.
Intercept	Pillai's Trace	1.000	1320253 ^a	4.000	21.000	.000
	Wilks' Lambda	.000	1320253 ^a	4.000	21.000	.000
	Hotelling's Trace	251476.8	1320253 ^a	4.000	21.000	.000
	Roy's Largest Root	251476.8	1320253 ^a	4.000	21.000	.000
suhu	Pillai's Trace	2.588	36.164	12.000	69.000	.000
	Wilks' Lambda	.000	180.082	12.000	55.852	.000
	Hotelling's Trace	550.517	902.236	12.000	59.000	.000
	Roy's Largest Root	539.656	3103.020 ^b	4.000	23.000	.000
waktu	Pillai's Trace	1.310	10.446	8.000	44.000	.000
	Wilks' Lambda	.068	14.942 ^a	8.000	42.000	.000
	Hotelling's Trace	8.204	20.510	8.000	40.000	.000
	Roy's Largest Root	7.455	41.000 ^b	4.000	22.000	.000
suhu * waktu	Pillai's Trace	2.909	10.664	24.000	96.000	.000
	Wilks' Lambda	.000	29.077	24.000	74.470	.000
	Hotelling's Trace	59.858	48.635	24.000	78.000	.000
	Roy's Largest Root	36.244	144.975 ^b	6.000	24.000	.000

a. Exact statistic

b. The statistic is an upper bound on F that yields a lower bound on the significance level.

c. Design: Intercept+suhu+waktu+suhu * waktu

Tests of Between-Subjects Effects

Source	Dependent Variable	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	antioksidan	1.409 ^a	11	.128	121.413	.000
	vit_c	23.782 ^b	11	2.162	21.567	.000
	ph	.217 ^c	11	.020	68.420	.000
	L	1340.417 ^d	11	121.856	762.567	.000
Intercept	antioksidan	18.516	1	18.516	17551.454	.000
	vit_c	396.116	1	396.116	3951.607	.000
	ph	1670.084	1	1670.084	5781062	.000
	L	49964.171	1	49964.171	312672.3	.000
suhu	antioksidan	1.364	3	.455	431.029	.000
	vit_c	8.333	3	2.778	27.710	.000
	ph	.012	3	.004	13.769	.000
	L	1242.099	3	414.033	2590.989	.000
waktu	antioksidan	.006	2	.003	3.039	.067
	vit_c	12.165	2	6.082	60.678	.000
	ph	.017	2	.008	28.740	.000
	L	2.348	2	1.174	7.348	.003
suhu * waktu	antioksidan	.038	6	.006	6.064	.001
	vit_c	3.283	6	.547	5.459	.001
	ph	.189	6	.031	108.971	.000
	L	95.970	6	15.995	100.095	.000
Error	antioksidan	.025	24	.001		
	vit_c	2.406	24	.100		
	ph	.007	24	.000		
	L	3.835	24	.160		
Total	antioksidan	19.950	36			
	vit_c	422.304	36			
	ph	1670.309	36			
	L	51308.423	36			
Corrected Total	antioksidan	1.434	35			
	vit_c	26.187	35			
	ph	.224	35			
	L	1344.252	35			

a. R Squared = .982 (Adjusted R Squared = .974)

b. R Squared = .908 (Adjusted R Squared = .866)

c. R Squared = .969 (Adjusted R Squared = .955)

d. R Squared = .997 (Adjusted R Squared = .996)

Lampiran 12. Analisa Aktivitas Antioksidan Sampel B Secara *Two-Way Anova* pada suhu 25°C-70°C

antioksidan

Duncan^{a,b,c}

suhu	N	Subset	
		1	2
4.00	9	.38078	
1.00	9		.81767
2.00	9		.81944
3.00	9		.85078
Sig.		1.000	.051

Means for groups in homogeneous subsets are displayed.

Based on Type III Sum of Squares

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

- Uses Harmonic Mean Sample Size = 9.000.
- The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.
- Alpha = .05.

Lampiran 13. Analisa Kadar Vitamin C Sampel B Secara *Two-Way Anova* pada suhu 25°C-70°C

vit_c

Duncan^{a,b,c}

suhu	N	Subset			
		1	2	3	4
2.00	9	2.66933			
3.00	9		3.08000		
4.00	9			3.58844	
1.00	9				3.93067
Sig.		1.000	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

Based on Type III Sum of Squares

The error term is Mean Square(Error) = .100.

- Uses Harmonic Mean Sample Size = 9.000.
- The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.
- Alpha = .05.

Lampiran 14. Analisa nilai pH Sampel B Secara *Two-Way Anova* pada suhu 25°C-70°C**ph**

Duncan^{a,b,c}

suhu	N	Subset	
		1	2
3.00	9	6.78000	
1.00	9		6.81667
4.00	9		6.82333
2.00	9		6.82444
Sig.		1.000	.369

Means for groups in homogeneous subsets are displayed.

Based on Type III Sum of Squares

The error term is Mean Square(Error) = .000.

- Uses Harmonic Mean Sample Size = 9.000.
- The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.
- Alpha = .05.

Lampiran 15. Analisa Aktivitas Antioksidan Sampel B Secara *Two-Way Anova* pada waktu 3-5 menit**antioksidan**

Duncan^{a,b,c}

waktu	N	Subset	
		1	2
3.00	12	.69850	
4.00	12	.72408	.72408
5.00	12		.72892
Sig.		.066	.719

Means for groups in homogeneous subsets are displayed.

Based on Type III Sum of Squares

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

- Uses Harmonic Mean Sample Size = 12.000.
- The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.
- Alpha = .05.

Lampiran 16. Analisa Kadar Vitamin C Sampel B Secara *Two-Way Anova* pada waktu 3-5 menit

vit_c

Duncan^{a,b,c}

waktu	N	Subset		
		1	2	3
5.00	12	2.58867		
4.00	12		3.35133	
3.00	12			4.01133
Sig.		1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

Based on Type III Sum of Squares

The error term is Mean Square(Error) = .100.

- Uses Harmonic Mean Sample Size = 12.000.
- The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.
- Alpha = .05.

Lampiran 17. Analisa Nilai pH Sampel B Secara *Two-Way Anova* pada waktu 3-5 menit

ph

Duncan^{a,b,c}

waktu	N	Subset	
		1	2
5.00	12	6.79083	
4.00	12	6.80167	
3.00	12		6.84083
Sig.		.132	1.000

Means for groups in homogeneous subsets are displayed.

Based on Type III Sum of Squares

The error term is Mean Square(Error) = .000.

- Uses Harmonic Mean Sample Size = 12.000.
- The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.
- Alpha = .05.

Lampiran 18. Analisa *Multivariate* pada Sampel C**Multivariate Tests^c**

Effect		Value	F	Hypothesis df	Error df	Sig.
Intercept	Pillai's Trace	1.000	6072678 ^a	4.000	21.000	.000
	Wilks' Lambda	.000	6072678 ^a	4.000	21.000	.000
	Hotelling's Trace	1156701	6072678 ^a	4.000	21.000	.000
	Roy's Largest Root	1156701	6072678 ^a	4.000	21.000	.000
suhu	Pillai's Trace	2.847	107.286	12.000	69.000	.000
	Wilks' Lambda	.000	434.433	12.000	55.852	.000
	Hotelling's Trace	674.964	1106.192	12.000	59.000	.000
	Roy's Largest Root	637.279	3664.357 ^b	4.000	23.000	.000
waktu	Pillai's Trace	1.794	47.852	8.000	44.000	.000
	Wilks' Lambda	.010	46.665 ^a	8.000	42.000	.000
	Hotelling's Trace	18.161	45.402	8.000	40.000	.000
	Roy's Largest Root	11.038	60.709 ^b	4.000	22.000	.000
suhu * waktu	Pillai's Trace	2.789	9.215	24.000	96.000	.000
	Wilks' Lambda	.000	29.468	24.000	74.470	.000
	Hotelling's Trace	65.244	53.011	24.000	78.000	.000
	Roy's Largest Root	44.005	176.018 ^b	6.000	24.000	.000

a. Exact statistic

b. The statistic is an upper bound on F that yields a lower bound on the significance level.

c. Design: Intercept+suhu+waktu+suhu * waktu

Tests of Between-Subjects Effects

Source	Dependent Variable	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	antioks	.295 ^a	11	.027	41.091	.000
	vit_c	165.932 ^b	11	15.085	41.624	.000
	pH	.160 ^c	11	.015	200.850	.000
	L	3683.448 ^d	11	334.859	1379.140	.000
Intercept	antioks	16.269	1	16.269	24916.549	.000
	vit_c	422.823	1	422.823	1166.704	.000
	pH	1741.532	1	1741.532	2E+007	.000
	L	37416.454	1	37416.454	154102.3	.000
suhu	antioks	.281	3	.094	143.249	.000
	vit_c	115.357	3	38.452	106.102	.000
	pH	.083	3	.028	385.372	.000
	L	3539.334	3	1179.778	4858.998	.000
waktu	antioks	.007	2	.003	5.093	.014
	vit_c	28.994	2	14.497	40.002	.000
	pH	.008	2	.004	52.769	.000
	L	41.516	2	20.758	85.493	.000
suhu * waktu	antioks	.008	6	.001	2.011	.104
	vit_c	21.581	6	3.597	9.925	.000
	pH	.068	6	.011	157.949	.000
	L	102.598	6	17.100	70.426	.000
Error	antioks	.016	24	.001		
	vit_c	8.698	24	.362		
	pH	.002	24	7.22E-005		
	L	5.827	24	.243		
Total	antioks	16.580	36			
	vit_c	597.453	36			
	pH	1741.693	36			
	L	41105.730	36			
Corrected Total	antioks	.311	35			
	vit_c	174.630	35			
	pH	.161	35			
	L	3689.276	35			

a. R Squared = .950 (Adjusted R Squared = .926)

b. R Squared = .950 (Adjusted R Squared = .927)

c. R Squared = .989 (Adjusted R Squared = .984)

d. R Squared = .998 (Adjusted R Squared = .998)

Lampiran 19. Analisa Aktivitas Antioksidan Sampel C Secara *Two-Way Anova* pada suhu 25°C-70°C

antioks

Duncan^{a,b,c}

suhu	N	Subset		
		1	2	3
3.00	9	.52300		
1.00	9		.70289	
4.00	9		.71000	
2.00	9			.75311
Sig.		1.000	.560	1.000

Means for groups in homogeneous subsets are displayed.

Based on Type III Sum of Squares

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

- Uses Harmonic Mean Sample Size = 9.000.
- The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.
- Alpha = .05.

Lampiran 20. Analisa Kadar Vitamin C Sampel C Secara *Two-Way Anova* pada suhu 25°C-70°C

vit_c

Duncan^{a,b,c}

suhu	N	Subset		
		1	2	3
3.00	9	1.70133		
2.00	9	1.93600		
1.00	9		3.93067	
4.00	9			6.14044
Sig.		.416	1.000	1.000

Means for groups in homogeneous subsets are displayed.

Based on Type III Sum of Squares

The error term is Mean Square(Error) = .362.

- Uses Harmonic Mean Sample Size = 9.000.
- The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.
- Alpha = .05.

Lampiran 21. Analisa Nilai pH Sampel C Secara *Two-Way Anova* pada suhu 25°C-70°C**pH**

Duncan^{a,b,c}

suhu	N	Subset		
		1	2	3
1.00	9	6.89667		
2.00	9		6.91889	
4.00	9			7.00111
3.00	9			7.00444
Sig.		1.000	1.000	.414

Means for groups in homogeneous subsets are displayed.

Based on Type III Sum of Squares

The error term is Mean Square(Error) = 7.22E-005.

- Uses Harmonic Mean Sample Size = 9.000.
- The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.
- Alpha = .05.

Lampiran 22. Analisa Aktivitas Antioksidan Sampel C Secara *Two-Way Anova* pada waktu 3-5 menit**antioks**

Duncan^{a,b,c}

waktu	N	Subset	
		1	2
5.00	12	.65342	
4.00	12		.67833
3.00	12		.68500
Sig.		1.000	.529

Means for groups in homogeneous subsets are displayed.

Based on Type III Sum of Squares

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

- Uses Harmonic Mean Sample Size = 12.000.
- The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.
- Alpha = .05.

Lampiran 23. Analisa Kadar Vitamin C Sampel C Secara *Two-Way Anova* pada waktu 3-5 menit

vit_c

Duncan^{a,b,c}

waktu	N	Subset		
		1	2	3
5.00	12	2.37600		
4.00	12		3.33667	
3.00	12			4.56867
Sig.		1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

Based on Type III Sum of Squares

The error term is Mean Square(Error) = .362.

- Uses Harmonic Mean Sample Size = 12.000.
- The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.
- Alpha = .05.

Lampiran 24. Analisa Nilai pH Sampel C Secara *Two-Way Anova* pada waktu 3-5 menit

pH

Duncan^{a,b,c}

waktu	N	Subset	
		1	2
3.00	12	6.94417	
4.00	12	6.94583	
5.00	12		6.97583
Sig.		.635	1.000

Means for groups in homogeneous subsets are displayed.

Based on Type III Sum of Squares

The error term is Mean Square(Error) = 7.22E-005.

- Uses Harmonic Mean Sample Size = 12.000.
- The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.
- Alpha = .05.

Lampiran 25. Analisa *Multivariate* pada Sampel A, B, dan C**Multivariate Tests^c**

Effect		Value	F	Hypothesis df	Error df	Sig.
Intercept	Pillai's Trace	1.000	324874.5 ^a	4.000	102.000	.000
	Wilks' Lambda	.000	324874.5 ^a	4.000	102.000	.000
	Hotelling's Trace	12740.176	324874.5 ^a	4.000	102.000	.000
	Roy's Largest Root	12740.176	324874.5 ^a	4.000	102.000	.000
sampel	Pillai's Trace	.838	18.563	8.000	206.000	.000
	Wilks' Lambda	.328	19.019 ^a	8.000	204.000	.000
	Hotelling's Trace	1.542	19.472	8.000	202.000	.000
	Roy's Largest Root	1.070	27.542 ^b	4.000	103.000	.000

a. Exact statistic

b. The statistic is an upper bound on F that yields a lower bound on the significance level.

c. Design: Intercept+sampel



Tests of Between-Subjects Effects

Source	Dependent Variable	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	antioksidan	.992 ^a	2	.496	17.287	.000
	vit_c	57.589 ^b	2	28.794	10.425	.000
	ph	.465 ^c	2	.232	49.722	.000
	L	3489.104 ^d	2	1744.552	29.867	.000
Intercept	antioksidan	42.617	1	42.617	1484.677	.000
	vit_c	1632.151	1	1632.151	590.900	.000
	ph	5147.401	1	5147.401	1100880	.000
	L	103770.641	1	103770.641	1776.552	.000
sampel	antioksidan	.992	2	.496	17.287	.000
	vit_c	57.589	2	28.794	10.425	.000
	ph	.465	2	.232	49.722	.000
	L	3489.104	2	1744.552	29.867	.000
Error	antioksidan	3.014	105	.029		
	vit_c	290.025	105	2.762		
	ph	.491	105	.005		
	L	6133.184	105	58.411		
Total	antioksidan	46.624	108			
	vit_c	1979.765	108			
	ph	5148.357	108			
	L	113392.929	108			
Corrected Total	antioksidan	4.006	107			
	vit_c	347.614	107			
	ph	.956	107			
	L	9622.288	107			

a. R Squared = .248 (Adjusted R Squared = .233)

b. R Squared = .166 (Adjusted R Squared = .150)

c. R Squared = .486 (Adjusted R Squared = .477)

d. R Squared = .363 (Adjusted R Squared = .350)

Lampiran 26. Analisa Aktivitas Antioksidan Sampel A, B, dan C Secara *Two-Way Anova***antioksidan**Duncan^{a,b,c}

sampel	N	Subset	
		1	2
1	36	.49511	
3	36		.67225
2	36		.71717
Sig.		1.000	.263

Means for groups in homogeneous subsets are displayed.

Based on Type III Sum of Squares

The error term is Mean Square(Error) = .029.

- Uses Harmonic Mean Sample Size = 36.000.
- The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.
- Alpha = .05.

Lampiran 27. Analisa Kadar Vitamin C Sampel A, B, dan C Secara *Two-Way Anova***vit_c**Duncan^{a,b,c}

sampel	N	Subset	
		1	2
2	36	3.31711	
3	36	3.42711	
1	36		4.91822
Sig.		.779	1.000

Means for groups in homogeneous subsets are displayed.

Based on Type III Sum of Squares

The error term is Mean Square(Error) = 2.762.

- Uses Harmonic Mean Sample Size = 36.000.
- The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.
- Alpha = .05.

Lampiran 28. Analisa Nilai pH Sampel A, B, dan C Secara *Two-Way Anova*

ph

Duncan^{a,b,c}

sampel	N	Subset	
		1	2
2	36	6.81111	
1	36		6.94472
3	36		6.95528
Sig.		1.000	.514

Means for groups in homogeneous subsets are displayed.

Based on Type III Sum of Squares

The error term is Mean Square(Error) = .005.

- Uses Harmonic Mean Sample Size = 36.000.
- The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.
- Alpha = .05.

Lampiran 29. Analisa Sensori Warna Non-Parametrik

Test Statistics^{a,b}

	tk_suka_wrn
Chi-Square	19.679
df	2
Asymp. Sig.	.000

- Kruskal Wallis Test
- Grouping Variable: sampel

sampel A vs sampel B

Test Statistics^a

	tk_suka_wrn
Mann-Whitney U	305.000
Wilcoxon W	770.000
Z	-2.324
Asymp. Sig. (2-tailed)	.020

- Grouping Variable: sampel

sampel A vs sampel C

Test Statistics^a

	tk_suka_wrn
Mann-Whitney U	205.000
Wilcoxon W	670.000
Z	-3.928
Asymp. Sig. (2-tailed)	.000

a. Grouping Variable: sampel

sampel B vs sampel C**Test Statistics^a**

	tk_suka_wrn
Mann-Whitney U	245.000
Wilcoxon W	710.000
Z	-3.273
Asymp. Sig. (2-tailed)	.001

a. Grouping Variable: sampel

Lampiran 30. Analisa Sensori Warna Non-Parametrik**Test Statistics^{a,b}**

	tk_suka_aroma
Chi-Square	2.472
df	2
Asymp. Sig.	.291

a. Kruskal Wallis Test

b. Grouping Variable: sampel

Lampiran 31. Analisa Sensori Rasa Non-Parametrik**Test Statistics^{a,b}**

	tk_suka_rasa
Chi-Square	2.769
df	2
Asymp. Sig.	.250

a. Kruskal Wallis Test

b. Grouping Variable: sampel

Lampiran 32. Analisa Sensori Overall Non-Parametrik

Test Statistics^{a,b}

	overall
Chi-Square	10.779
df	2
Asymp. Sig.	.005

a. Kruskal Wallis Test

b. Grouping Variable: sampel

Sampel A vs sampel B

Test Statistics(a)

	overall
Mann-Whitney U	426.000
Wilcoxon W	891.000
Z	-.382
Asymp. Sig. (2-tailed)	.703

a. Grouping Variable: sampel

sampel A vs sampel C

Test Statistics^a

	overall
Mann-Whitney U	264.000
Wilcoxon W	729.000
Z	-2.929
Asymp. Sig. (2-tailed)	.003

a. Grouping Variable: sampel

sampel B vs sampel C

Test Statistics^a

	overall
Mann-Whitney U	276.000
Wilcoxon W	741.000
Z	-2.740
Asymp. Sig. (2-tailed)	.006

a. Grouping Variable: sampel

Lampiran 33. Analisa Korelasi

Correlations

		sampel	suhu	waktu	antioksidan	vit_c	ph
sampel	Pearson Correlation	1	.000	.000	.375**	-.339**	.046
	Sig. (2-tailed)		1.000	1.000	.000	.000	.638
	N	108	108	108	108	108	108
suhu	Pearson Correlation	.000	1	.000	-.577**	.232*	.281**
	Sig. (2-tailed)	1.000		1.000	.000	.016	.003
	N	108	108	108	108	108	108
waktu	Pearson Correlation	.000	.000	1	-.016	-.468**	-.014
	Sig. (2-tailed)	1.000	1.000		.868	.000	.882
	N	108	108	108	108	108	108
antioksidan	Pearson Correlation	.375**	-.577**	-.016	1	-.278**	-.380**
	Sig. (2-tailed)	.000	.000	.868		.004	.000
	N	108	108	108	108	108	108
vit_c	Pearson Correlation	-.339**	.232*	-.468**	-.278**	1	.208*
	Sig. (2-tailed)	.000	.016	.000	.004		.031
	N	108	108	108	108	108	108
ph	Pearson Correlation	.046	.281**	-.014	-.380**	.208*	1
	Sig. (2-tailed)	.638	.003	.882	.000	.031	
	N	108	108	108	108	108	108

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

* . Correlation is significant at the 0.05 level (2-tailed).

Lampiran 34. Analisa Korelasi Parsial

Correlations

Control Variables			suhu	antioksidan
vit_c	suhu	Correlation	1.000	-.548
		Significance (2-tailed)	.	.000
		df	0	105
antioksidan	antioksidan	Correlation	-.548	1.000
		Significance (2-tailed)	.000	.
		df	105	0

Correlations

Control Variables			suhu	ph
vit_c	suhu	Correlation	1.000	.245
		Significance (2-tailed)	.	.011
		df	0	105
ph	ph	Correlation	.245	1.000
		Significance (2-tailed)	.011	.
		df	105	0

Lampiran 35. Hasil analisa kadar vitamin C pada bahan penyusun *infusion*

Sampel	Iodin (ml)	Vitamin C (mg)
Daun jambu biji	9.1	8.00
Buah jambu biji	14.5	12.76
Kembang sepatu	8.3	7.30

