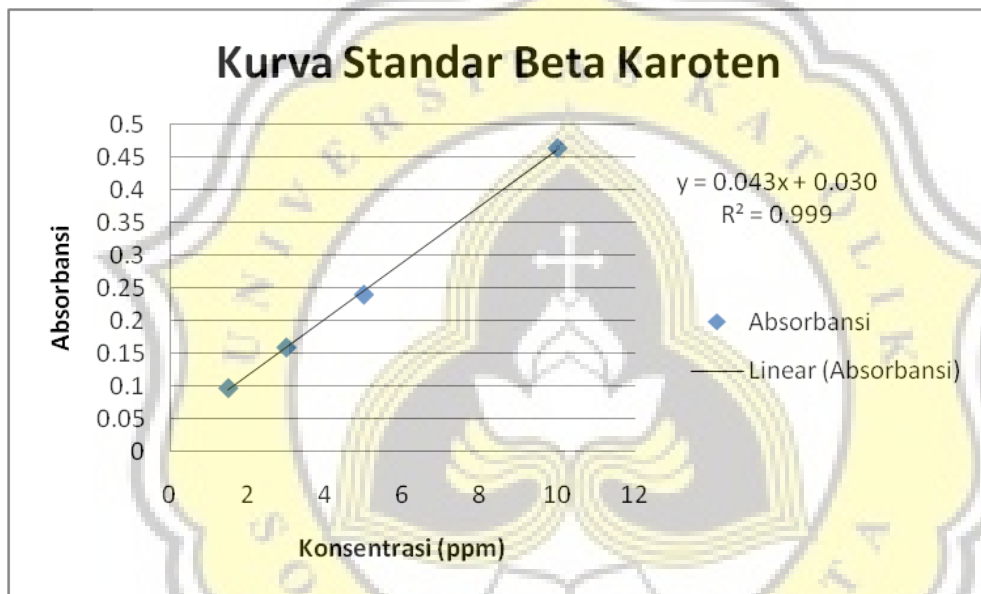


7. LAMPIRAN

Lampiran 1. Kurva Standar Beta Karoten

Konsentrasi (ppm)	Absorbansi
1.5	0.0976
3	0.1596
5	0.2400
10	0.4630



Lampiran 2. Hasil Pengolahan Data dengan Perangkat SPSS

- **Karakteristik Tepung Wortel**

- **Warna**

Tests of Normality

perlakuan	Kolmogorov-Smirnov ^a			Shapiro-Wilk			
	Statistic	df	Sig.	Statistic	df	Sig.	
L	Kontrol	.212	6	.200*	.948	6	.722
	Na metabisulfit 0.1%	.235	6	.200*	.815	6	.081
	Na metabisulfit 0.2%	.212	6	.200*	.889	6	.312
	Natrium metabisulfit 0.3%	.168	6	.200*	.978	6	.939
	Gum Arab 0.3%	.204	6	.200*	.955	6	.784
	Gum Arab 0.6%	.201	6	.200*	.903	6	.392
	Gum Arab 0.9%	.168	6	.200*	.938	6	.643
a	Kontrol	.275	6	.175	.806	6	.066
	Na metabisulfit 0.1%	.284	6	.142	.914	6	.464
	Na metabisulfit 0.2%	.261	6	.200*	.910	6	.438
	Natrium metabisulfit 0.3%	.275	6	.174	.876	6	.251
	Gum Arab 0.3%	.284	6	.143	.903	6	.395
	Gum Arab 0.6%	.257	6	.200*	.843	6	.139
	Gum Arab 0.9%	.209	6	.200*	.968	6	.881
b	Kontrol	.271	6	.191	.854	6	.169
	Na metabisulfit 0.1%	.157	6	.200*	.990	6	.989
	Na metabisulfit 0.2%	.309	6	.077	.842	6	.136
	Natrium metabisulfit 0.3%	.286	6	.138	.829	6	.105
	Gum Arab 0.3%	.175	6	.200*	.931	6	.584
	Gum Arab 0.6%	.215	6	.200*	.897	6	.357
	Gum Arab 0.9%	.274	6	.178	.847	6	.150

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

a. Lilliefors Significance Correction

L

Duncan^a

perlakuan	N	Subset for alpha = 0.05		
		1	2	3
Kontrol	6	80.03000		
Na metabisulfit 0.1%	6	80.20167		
Na metabisulfit 0.2%	6	80.34333	80.34333	
Gum Arab 0.3%	6	80.42833	80.42833	
Gum Arab 0.6%	6		80.82667	80.82667
Natrium metabisulfit 0.3%	6			80.98833
Gum Arab 0.9%	6			81.05833
Sig.		.140	.065	.373

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

a

Duncan^a

perlakuan	N	Subset for alpha = 0.05			
		1	2	3	4
Kontrol	6	11.9717			
Gum Arab 0.3%	6		15.7867		
Na metabisulfit 0.1%	6		16.0117	16.0117	
Na metabisulfit 0.2%	6		16.2250	16.2250	
Gum Arab 0.6%	6		16.3183	16.3183	
Gum Arab 0.9%	6			16.6067	16.6067
Natrium metabisulfit 0.3%	6				17.1467
Sig.		1.000	.119	.081	.085

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

b

Duncan^a

perlakuan	N	Subset for alpha = 0.05			
		1	2	3	4
Kontrol	6	35.1300			
Gum Arab 0.3%	6		36.0283		
Na metabisulfit 0.1%	6		36.1933		
Gum Arab 0.6%	6		36.3817		
Gum Arab 0.9%	6		36.7650	36.7650	
Na metabisulfit 0.2%	6			37.4350	
Natrium metabisulfit 0.3%	6				38.2633
Sig.		1.000	.053	.056	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

➤ *Water Holding Capacity*

Tests of Normality

perlakuan	Kolmogorov-Smirnov ^a			Shapiro-Wilk			
	Statistic	df	Sig.	Statistic	df	Sig.	
WHC_suhu_30C	Kontrol	.175	6	.200*	.959	6	.811
	Na metabisulfit 0.1%	.308	6	.079	.836	6	.122
	Na metabisulfit 0.2%	.201	6	.200*	.941	6	.667
	Natrium metabisulfit 0.3%	.259	6	.200*	.864	6	.203
	Gum Arab 0.3%	.205	6	.200*	.923	6	.529
	Gum Arab 0.6%	.161	6	.200*	.958	6	.807
	Gum Arab 0.9%	.262	6	.200*	.843	6	.138
WHC_suhu_dingin	Kontrol	.165	6	.200*	.944	6	.696
	Na metabisulfit 0.1%	.119	6	.200*	.992	6	.993
	Na metabisulfit 0.2%	.306	6	.084	.777	6	.036
	Natrium metabisulfit 0.3%	.229	6	.200*	.890	6	.321
	Gum Arab 0.3%	.259	6	.200*	.908	6	.422
	Gum Arab 0.6%	.191	6	.200*	.889	6	.315
	Gum Arab 0.9%	.203	6	.200*	.939	6	.652

WHC_suhu_30C

Duncan^a

perlakuan	N	Subset for alpha = 0.05				
		1	2	3	4	5
Kontrol	6	6.77400				
Na metabisulfit 0.1%	6		7.26667			
Na metabisulfit 0.2%	6			7.80900		
Natrium metabisulfit 0.3%	6			7.96983		
Gum Arab 0.3%	6			8.10633	8.10633	
Gum Arab 0.6%	6				8.44067	8.44067
Gum Arab 0.9%	6					8.48800
Sig.		1.000	1.000	.119	.066	.790

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

WHC_suhu_dingin

Duncan^a

perlakuan	N	Subset for alpha = 0.05			
		1	2	3	4
Kontrol	6	7.11233			
Na metabisulfit 0.1%	6		7.77517		
Na metabisulfit 0.2%	6		7.84133		
Natrium metabisulfit 0.3%	6		8.08850	8.08850	
Gum Arab 0.3%	6			8.27800	
Gum Arab 0.6%	6			8.43117	
Gum Arab 0.9%	6				8.92550
Sig.		1.000	.080	.056	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

➤ *Wettability*

Tests of Normality

perlakuan	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
wetability Kontrol	.208	6	.200*	.903	6	.392
Na metabisulfit 0.1%	.243	6	.200*	.870	6	.226
Na metabisulfit 0.2%	.150	6	.200*	.961	6	.829
Natrium metabisulfit 0.3%	.211	6	.200*	.925	6	.542
Gum Arab 0.3%	.264	6	.200*	.898	6	.363
Gum Arab 0.6%	.296	6	.109	.803	6	.062
Gum Arab 0.9%	.185	6	.200*	.919	6	.497

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

a. Lilliefors Significance Correction

wetability

Duncan^a

perlakuan	N	Subset for alpha = 0.05					
		1	2	3	4	5	6
Kontrol	6	16.8983					
Gum Arab 0.3%	6		19.7017				
Na metabisulfit 0.1%	6			21.0583			
Na metabisulfit 0.2%	6				23.4750		
Natrium metabisulfit 0.3%	6				24.1600	24.1600	
Gum Arab 0.6%	6					24.4100	
Gum Arab 0.9%	6						25.2283
Sig.		1.000	1.000	1.000	.056	.475	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

➤ **Kadar Air**

Tests of Normality

perlakuan		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
kadar_air_wb	Kontrol	.225	6	.200*	.864	6	.204
	Na metabisulfit 0.1%	.292	6	.120	.903	6	.392
	Na metabisulfit 0.2%	.247	6	.200*	.933	6	.600
	Natrium metabisulfit 0.3%	.224	6	.200*	.882	6	.276
	Gum Arab 0.3%	.204	6	.200*	.955	6	.783
	Gum Arab 0.6%	.279	6	.159	.836	6	.122
	Gum Arab 0.9%	.213	6	.200*	.964	6	.853
kadar_air_db	Kontrol	.221	6	.200*	.867	6	.216
	Na metabisulfit 0.1%	.291	6	.123	.904	6	.396
	Na metabisulfit 0.2%	.243	6	.200*	.938	6	.644
	Natrium metabisulfit 0.3%	.217	6	.200*	.885	6	.294
	Gum Arab 0.3%	.204	6	.200*	.953	6	.764
	Gum Arab 0.6%	.285	6	.140	.833	6	.115
	Gum Arab 0.9%	.213	6	.200*	.964	6	.853

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

a. Lilliefors Significance Correction

kadar_air_wb

Duncan^a

perlakuan	N	Subset for alpha = 0.05					
		1	2	3	4	5	6
Gum Arab 0.9%	6	8.48333					
Natrium metabisulfit 0.3%	6		11.26667				
Gum Arab 0.6%	6			11.71667			
Na metabisulfit 0.2%	6			11.77500			
Na metabisulfit 0.1%	6				12.27500		
Gum Arab 0.3%	6					13.25000	
Kontrol	6						13.80833
Sig.		1.000	1.000	.584	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

kadar_air_db

Duncan^a

perlakuan	N	Subset for alpha = 0.05					
		1	2	3	4	5	6
Gum Arab 0.9%	6	9.27000					
Natrium metabisulfit 0.3%	6		12.69667				
Gum Arab 0.6%	6			13.26833			
Na metabisulfit 0.2%	6			13.34500			
Na metabisulfit 0.1%	6				13.99333		
Gum Arab 0.3%	6					15.27333	
Kontrol	6						16.02000
Sig.		1.000	1.000	.571	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

➤ Beta Karoten

Tests of Normality

perlakuan	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
beta_karoten_bk						
Kontrol	.138	6	.200*	.971	6	.896
Na metabisulfit 0.1%	.234	6	.200*	.884	6	.286
Na metabisulfit 0.2%	.235	6	.200*	.937	6	.633
Natrium metabisulfit 0.3%	.202	6	.200*	.904	6	.397
Gum Arab 0.3%	.167	6	.200*	.937	6	.636
Gum Arab 0.6%	.337	6	.031	.725	6	.011
Gum Arab 0.9%	.410	6	.002	.692	6	.005

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

a. Lilliefors Significance Correction

beta_karoten_bk

Duncan^a

perlakuan	N	Subset for alpha = 0.05					
		1	2	3	4	5	6
Kontrol	6	1.31667					
Na metabisulfit 0.1%	6		1.62133				
Gum Arab 0.3%	6			1.67733			
Gum Arab 0.6%	6				1.76383		
Natrium metabisulfit 0.3%	6					1.80900	
Gum Arab 0.9%	6					1.81133	
Na metabisulfit 0.2%	6						2.23183
Sig.		1.000	1.000	1.000	1.000	.828	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

➤ pH

Tests of Normality

perlakuan	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
pH						
Kontrol	.175	6	.200*	.975	6	.926
Na metabisulfit 0.1%	.240	6	.200*	.885	6	.294
Na metabisulfit 0.2%	.150	6	.200*	.974	6	.918
Natrium metabisulfit 0.3%	.243	6	.200*	.881	6	.272
Gum Arab 0.3%	.198	6	.200*	.967	6	.875
Gum Arab 0.6%	.187	6	.200*	.966	6	.866
Gum Arab 0.9%	.254	6	.200*	.866	6	.212

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

a. Lilliefors Significance Correction

pH

Duncan^a

perlakuan	N	Subset for alpha = 0.05		
		1	2	3
Na metabisulfit 0.2%	6	5.90667		
Gum Arab 0.9%	6	5.91833	5.91833	
Natrium metabisulfit 0.3%	6	5.92500	5.92500	
Na metabisulfit 0.1%	6	5.92833	5.92833	
Kontrol	6		5.95167	5.95167
Gum Arab 0.6%	6			5.97167
Gum Arab 0.3%	6			5.98167
Sig.		.212	.056	.075

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

- **Sorbet Tepung Wortel**

- **Melting Rate**

Tests of Normality

perlakuan		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
melting_rate	sorbet kontrol	.282	6	.146	.855	6	.171
	sorbet tepung wortel (gum arab 0.9%)	.228	6	.200*	.878	6	.260

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

a. Lilliefors Significance Correction

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
melting_rate	Equal variances assumed	2.179	.171	3.573	10	.005	.230333	.064472	.086681	.373985
	Equal variances not assumed			3.573	8.490	.007	.230333	.064472	.083141	.377525

➤ Time to Melt

Tests of Normality

perlakuan		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
time_to_melt	sorbet kontrol	.213	6	.200*	.961	6	.824
	sorbet tepung wortel (gum arab 0.9%)	.185	6	.200*	.928	6	.565

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

a. Lilliefors Significance Correction

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
time_to_melt	Equal variances assumed	.017	.899	-1.701	10	.120	-1.24833	.73394	-2.88366	.38699
	Equal variances not assumed			-1.701	9.996	.120	-1.24833	.73394	-2.88374	.38707

➤ Organoleptik

❖ Uji Kruskal Wallis

Test Statistics^{a,b}

	warna	aroma	tekstur	rasa	overall
Chi-Square	7.766	15.250	23.464	34.548	28.164
df	1	1	1	1	1
Asymp. Sig.	.005	.000	.000	.000	.000

a. Kruskal Wallis Test

b. Grouping Variable: perlakuan

❖ Uji Mann-Whitney

▪ Warna

Test Statistics^a

	warna
Mann-Whitney U	693.000
Wilcoxon W	1728.000
Z	-2.787
Asymp. Sig. (2-tailed)	.005

a. Grouping Variable:
perlakuan

▪ Aroma

Test Statistics^a

	aroma
Mann-Whitney U	571.000
Wilcoxon W	1606.000
Z	-3.905
Asymp. Sig. (2-tailed)	.000

a. Grouping Variable:
perlakuan

Test Statistics^a

	tekstur
Mann-Whitney U	447.000
Wilcoxon W	1482.000
Z	-4.844
Asymp. Sig. (2-tailed)	.000

a. Grouping Variable:
perlakuan

- Rasa

Test Statistics^a

	rasa
Mann-Whitney U	318.500
Wilcoxon W	1353.500
Z	-5.878
Asymp. Sig. (2-tailed)	.000

a. Grouping Variable:
perlakuan

- Overall

Test Statistics^a

	overall
Mann-Whitney U	402.500
Wilcoxon W	1437.500
Z	-5.307
Asymp. Sig. (2-tailed)	.000

a. Grouping Variable:
perlakuan

Lampiran 3. Worksheet Uji Rating Hedonik

Worksheet Uji Monadik Rating Hedonik

Tanggal uji :

Jenis sampel : *Sorbet* tepung wortel

Identifikasi sampel

Sorbet komersial

Sorbet tepung wortel (perendaman Gum Arab 0,9%)

Kode

A

B

Kode kombinasi urutan penyajian :

AB = 1

BA = 2

Penyajian :

<i>Booth</i>	Panelis	Kode Sampel urutan penyajian
I	1, 13, 25, 37	975 811 ¹
II	2, 14, 26, 38	973 416 ²
III	3, 15, 27, 39	257 595 ¹
IV	4, 16, 28, 40	723 817 ²
I	5, 17, 29, 41	539 862 ¹
II	6, 18, 30, 42	671 374 ²
III	7, 19, 31, 43	312 165 ¹
IV	8, 20, 32, 44	826 513 ²
I	9, 21, 33, 45	788 128 ¹
II	10, 22, 34	377 161 ²
III	11, 23, 35	215 919 ¹
IV	12, 24, 36	174 525 ²

Rekap Kode Sampel :

Sampel A	975 416 257 817 539 374 312 513 788 161 215 525
Sampel B	811 973 595 723 862 671 165 826 128 377 919 174

Lampiran 4. Scoresheet Uji Rating Hedonik

UJI RATING HEDONIK

Tanggal :

Nama :
 Produk : *Sorbet*

Instruksi :

Di hadapan Anda terdapat sampel *sorbet*. Berilah penilaian terhadap sampel untuk atribut **warna, aroma, tekstur, rasa**, dan kesukaan Anda terhadap sampel secara keseluruhan (*overall*) dari skala 1 hingga 4, dengan keterangan sebagai berikut :

1 : sangat tidak suka

2 : tidak suka

3 : suka

4 : sangat suka

*) Anda **WAJIB** berkumur-kumur dengan air putih sebelum dan sesudah mencicipi sampel

Kode Sampel	Warna	Aroma	Tekstur	Rasa	Overall

Berikan komentar Anda terhadap masing-masing sampel (WAJIB)

Kode Sampel	Komentar

Terima Kasih ☺

6.6%

FORMULIR SCAN ANTI PLAGIARISME

Nama : Anastasia Putri Kristiana

Alamat email : anastasiakristiana2013@gmail.com

Fak. / Prodi : Teknologi Pertanian / Tek. Pangan NIM : 13.70.0151

berupa (TESIS, TUGAS AKHIR, SKRIPSI, SUMMARY, LAPORAN KERJA PRAKTEK)

dengan judul : Pengaruh Jenis dan Konsentrasi Larutan Perendam terhadap Karakteristik Fisikokimia Tepung Wortel dan Penerapannya pada Sosis

Semarang, Petugas,  Yang Menyerahkan, Dosen Pembimbing,

 Anastasia Putri K.  Novita Ika Putri S.TP, MS.

NB. Laporan hasil scan terlampir untuk Yang bersangkutan *

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