

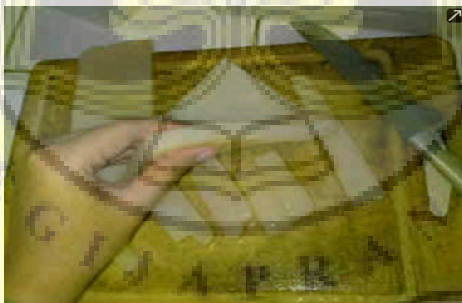
Lampiran 1. Lembaran *Nata de Banana* dengan Berbagai Konsentrasi Starter



A



B



C

Keterangan :

- A : *Nata de banana* dengan konsentrasi starter 10%
- B : *Nata de banana* dengan konsentrasi starter 20%
- C : *Nata de banana* dengan konsentrasi starter 30%

Lampiran 2. Worksheet Uji Rating Hedonik Nata de Banana

WORKSHEET UJI RATING HEDONIK

Tanggal Uji : 18 Maret 2011
 Jenis Sampel : *Nata de Banana*

Identifikasi Sampel

AYKT
 AYKM
 AZKT
 AZKM
 KYKT
 KYKM
 KZKT
 KZKM
 RYKT
 RYKM
 RZKT
 RZKM
 Kontrol

Kode

A
 B
 C
 D
 E
 F
 G
 H
 I
 J
 K
 L
 M

Kode Kombinasi Urutan Penyajian

ABCDEFGHIJKLM = 1
 ABCDEFHGIJLMK = 2
 ABCFEDGHILMKJ = 3
 ABCDHDGFEIMJKL = 4
 BCDEFHGIJKLMA = 5
 BCEDFGIHKMAL = 6
 BCDGFEHIJMALK = 7
 BCDEIHGFJAKLM = 8
 CDEFHGIJKLMAB = 9
 CDFEGHJIKLABM = 10

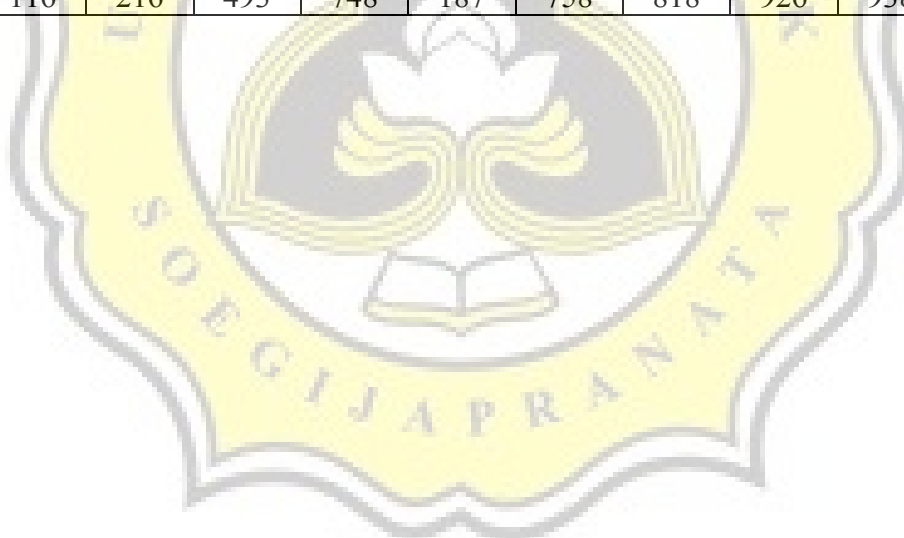
Penyajian

Panelis	Kode Sampel ^{Urutan Penyajian}
1, 11, 21, 31	591 636 415 383 975 257 723 448 539 661 394 882 116 ¹
2, 12, 22, 32	214 167 982 349 973 752 395 524 881 469 647 216 138 ²
3, 13, 23, 33	851 789 543 468 235 667 174 951 529 312 493 786 848 ³
4, 14, 24, 34	669 438 743 122 811 227 453 982 664 748 599 376 135 ⁴
5, 15, 25, 35	394 413 835 771 761 813 276 455 594 942 628 187 339 ⁵
6, 16, 26, 36	921 313 278 889 461 695 249 374 536 833 758 927 112 ⁶

7, 17, 27, 37	569 446 874 918 991 222 676 559 733 818 164 345 487 ⁷
8, 18, 28, 38	811 225 373 768 792 633 461 577 348 154 215 889 926 ⁸
9, 19, 29, 39	683 362 499 857 256 595 614 873 162 449 938 887 721 ⁹
10, 20, 30, 40	762 248 437 694 194 526 485 747 919 333 272 658 861 ¹⁰

Rekap Kode Sampel

	1	2	3	4	5	6	7	8	9	10
A	591	214	851	669	339	927	164	154	887	272
B	636	167	167	789	438	921	569	811	721	658
C	415	349	543	743	413	313	446	225	683	762
D	383	982	667	122	835	889	874	373	362	248
E	975	973	235	982	771	278	222	768	499	694
F	257	752	468	453	761	461	991	577	857	437
G	723	524	174	227	813	695	918	461	256	194
H	448	395	951	811	276	374	676	633	595	526
I	539	881	529	664	455	249	559	792	614	747
J	661	469	848	599	594	536	733	348	873	485
K	394	138	786	376	942	833	487	215	162	919
L	882	647	312	135	628	112	345	889	449	333
M	116	216	493	748	187	758	818	926	938	861



Lampiran 3. Scoresheet Uji Rating Hedonik Nata de Banana

UJI RATING HEDONIK

Nama : _____ Tanggal : _____
Produk : *Nata de Banana*
Atribut : *Warna*

Instruksi :

Di hadapan Anda terdapat 13 sampel nata. Tuliskan kode dari satu sampel yang akan Anda uji di kolom yang tersedia. Amati warna sampel tersebut dan berilah skor (=5) untuk sampel dengan warna yang sangat Anda sukai hingga skor (=1) untuk sampel dengan warna yang sangat tidak disukai. Setelah Anda selesai mengamati satu sampel, ujilah sampel yang lain dengan cara yang sama. Saat menilai satu sampel, **jangan membandingkannya** dengan sampel lain. Pemberian skor **boleh sama** antar sampel.

Kode Sampel	Rating (angka boleh sama)
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Terima kasih

UJI RATING HEDONIK

Nama : _____ Tanggal : _____
Produk : *Nata de Banana*
Atribut : Kekenyalan

Instruksi :

Di hadapan Anda terdapat 13 sampel nata. Tuliskan kode dari satu sampel yang akan Anda uji di kolom yang tersedia. Ambil sampel tersebut dan gigit dengan gigi Anda, kemudian berilah skor (=5) untuk sampel dengan tingkat kekenyalan yang sangat Anda sukai hingga skor (=1) untuk sampel dengan tingkat kekenyalan yang sangat tidak disukai. Setelah Anda selesai mengamati satu sampel, ujilah sampel yang lain dengan cara yang sama. Saat menilai satu sampel, **jangan membandingkannya** dengan sampel lain. Pemberian skor **boleh sama** antar sampel.

Kode Sampel

Rating (angka boleh sama)

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Terima kasih

UJI RATING HEDONIK

Nama : _____ Tanggal : _____
Produk : *Nata de Banana*
Atribut : *Overall*

Instruksi :

Di hadapan Anda terdapat 13 sampel nata. Tuliskan kode dari satu sampel yang akan Anda uji di kolom yang tersedia. Amati sampel tersebut dan berilah skor (=5) untuk sampel yang sangat Anda sukai hingga skor (=1) untuk sampel yang sangat tidak disukai. Setelah Anda selesai mengamati satu sampel, ujilah sampel yang lain dengan cara yang sama. Saat menilai satu sampel, **jangan membandingkannya** dengan sampel lain. Pemberian skor **boleh sama** antar sampel.

Kode Sampel

Rating (angka boleh sama)

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Terima kasih

Lampiran 4. SPSS Uji Normalitas Karakteristik Fisik dan Kimia *Nata de Banana* pada Berbagai Perlakuan

Tests of Normality

	perlakuan	Kolmogorov-Smirnov(a)			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
ketebalan	1	.260	6	.200(*)	.876	6	.252
	2	.232	6	.200(*)	.861	6	.191
	3	.237	6	.200(*)	.927	6	.554
	4	.315	6	.063	.766	6	.028
	5	.258	6	.200(*)	.811	6	.074
	6	.251	6	.200(*)	.909	6	.432
	7	.212	6	.200(*)	.889	6	.315
	8	.223	6	.200(*)	.878	6	.260
	9	.208	6	.200(*)	.908	6	.425
	10	.195	6	.200(*)	.932	6	.596
	11	.199	6	.200(*)	.950	6	.741
	12	.287	6	.132	.844	6	.142
kekerasan	1	.194	6	.200(*)	.974	6	.919
	2	.198	6	.200(*)	.934	6	.611
	3	.311	6	.072	.707	6	.007
	4	.171	6	.200(*)	.968	6	.877
	5	.250	6	.200(*)	.845	6	.144
	6	.169	6	.200(*)	.961	6	.827
	7	.141	6	.200(*)	.974	6	.919
	8	.195	6	.200(*)	.934	6	.611
	9	.246	6	.200(*)	.795	6	.053
	10	.306	6	.084	.805	6	.065
	11	.161	6	.200(*)	.956	6	.785
	12	.165	6	.200(*)	.984	6	.969
kekenyalan	1	.266	6	.200(*)	.808	6	.070
	2	.317	6	.059	.705	6	.007
	3	.236	6	.200(*)	.893	6	.335
	4	.186	6	.200(*)	.937	6	.632
	5	.302	6	.094	.822	6	.092
	6	.194	6	.200(*)	.893	6	.336
	7	.314	6	.066	.823	6	.094
	8	.200	6	.200(*)	.910	6	.435
	9	.203	6	.200(*)	.971	6	.901
	10	.251	6	.200(*)	.943	6	.681
	11	.295	6	.113	.846	6	.147
	12	.266	6	.200(*)	.783	6	.041

pH_sebelum	1	.312	6	.069	.767	6	.029
	2	.254	6	.200(*)	.866	6	.212
	3	.262	6	.200(*)	.862	6	.195
	4	.223	6	.200(*)	.908	6	.421
	5	.279	6	.160	.904	6	.400
	6	.252	6	.200(*)	.916	6	.480
	7	.293	6	.117	.915	6	.473
	8	.202	6	.200(*)	.853	6	.167
	9	.254	6	.200(*)	.866	6	.212
	10	.208	6	.200(*)	.908	6	.425
	11	.263	6	.200(*)	.823	6	.093
	12	.214	6	.200(*)	.951	6	.752
pH_sesudah	1	.198	6	.200(*)	.952	6	.755
	2	.308	6	.077	.796	6	.054
	3	.214	6	.200(*)	.913	6	.459
	4	.241	6	.200(*)	.903	6	.389
	5	.279	6	.158	.806	6	.066
	6	.205	6	.200(*)	.935	6	.615
	7	.236	6	.200(*)	.945	6	.697
	8	.299	6	.102	.816	6	.081
	9	.218	6	.200(*)	.864	6	.204
	10	.259	6	.200(*)	.907	6	.420
	11	.317	6	.060	.781	6	.039
	12	.135	6	.200(*)	.983	6	.964
gula_sebelum	1	.263	6	.200(*)	.823	6	.093
	2	.307	6	.081	.788	6	.045
	3	.256	6	.200(*)	.851	6	.162
	4	.272	6	.187	.815	6	.080
	5	.319	6	.056	.683	6	.004
	6	.223	6	.200(*)	.908	6	.421
	7	.319	6	.056	.683	6	.004
	8	.307	6	.081	.788	6	.045
	9	.293	6	.117	.822	6	.091
	10	.210	6	.200(*)	.891	6	.326
	11	.281	6	.150	.810	6	.072
	12	.208	6	.200(*)	.862	6	.198
gula_sesudah	1	.254	6	.200(*)	.866	6	.212
	2	.202	6	.200(*)	.853	6	.167
	3	.254	6	.200(*)	.776	6	.036
	4	.259	6	.200(*)	.794	6	.052
	5	.298	6	.103	.718	6	.010
	6	.318	6	.057	.824	6	.096
	7	.306	6	.083	.889	6	.312
	8	.251	6	.200(*)	.772	6	.033
	9	.264	6	.200(*)	.840	6	.130

	10	.305	6	.086	.818	6	.085
	11	.216	6	.200(*)	.841	6	.133
	12	.185	6	.200(*)	.977	6	.933
serat_kasar	1	.271	6	.194	.847	6	.148
	2	.225	6	.200(*)	.906	6	.410
	3	.199	6	.200(*)	.965	6	.855
	4	.167	6	.200(*)	.975	6	.927
	5	.308	6	.078	.805	6	.066
	6	.196	6	.200(*)	.914	6	.465
	7	.262	6	.200(*)	.859	6	.185
	8	.272	6	.185	.859	6	.185
	9	.211	6	.200(*)	.942	6	.678
	10	.154	6	.200(*)	.974	6	.920
	11	.205	6	.200(*)	.939	6	.650
	12	.147	6	.200(*)	.958	6	.802

* This is a lower bound of the true significance.

a Lilliefors Significance Correction



Lampiran 5. SPSS Uji Beda Karakteristik Fisik dan Kimia *Nata de Banana* pada Berbagai Perlakuan

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
ketebalan	Between Groups	.320	11	.029	5.132	.000
	Within Groups	.341	60	.006		
	Total	.661	71			
kekerasan	Between Groups	3136.182	11	285.107	3.673	.001
	Within Groups	4657.304	60	77.622		
	Total	7793.485	71			
kekenyalan	Between Groups	.093	11	.008	2.414	.015
	Within Groups	.209	60	.003		
	Total	.302	71			
pH_sebelum	Between Groups	.243	11	.022	96.558	.000
	Within Groups	.014	60	.000		
	Total	.257	71			
pH_sesudah	Between Groups	.753	11	.068	9.734	.000
	Within Groups	.422	60	.007		
	Total	1.175	71			
gula_sebelum	Between Groups	15.805	11	1.437	7.529	.000
	Within Groups	11.450	60	.191		
	Total	27.255	71			
gula_sesudah	Between Groups	13.511	11	1.228	3.169	.002
	Within Groups	23.253	60	.388		
	Total	36.764	71			
serat_kasar	Between Groups	.428	11	.039	5.255	.000
	Within Groups	.444	60	.007		
	Total	.872	71			

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
AEYKT	Between Groups	1.763	1	1.763	36.233	.000
	Within Groups	.487	10	.049		
	Total	2.250	11			
AEYKM	Between Groups	.213	1	.213	2.500	.145
	Within Groups	.853	10	.085		
	Total	1.067	11			

AZAKT	Between Groups	5.603	1	5.603	8.105	.017
	Within Groups	6.913	10	.691		
	Total	12.517	11			
AZAKM	Between Groups	4.813	1	4.813	12.237	.006
	Within Groups	3.933	10	.393		
	Total	8.747	11			
KEYKT	Between Groups	8.003	1	8.003	16.028	.003
	Within Groups	4.993	10	.499		
	Total	12.997	11			
KEYKM	Between Groups	5.070	1	5.070	25.266	.001
	Within Groups	2.007	10	.201		
	Total	7.077	11			
KZAKT	Between Groups	4.813	1	4.813	39.670	.000
	Within Groups	1.213	10	.121		
	Total	6.027	11			
KZAKM	Between Groups	11.213	1	11.213	76.455	.000
	Within Groups	1.467	10	.147		
	Total	12.680	11			
REYKT	Between Groups	11.603	1	11.603	48.213	.000
	Within Groups	2.407	10	.241		
	Total	14.010	11			
REYKM	Between Groups	7.841	1	7.841	48.954	.000
	Within Groups	1.602	10	.160		
	Total	9.443	11			
RZAKT	Between Groups	20.280	1	20.280	38.216	.000
	Within Groups	5.307	10	.531		
	Total	25.587	11			
RZAKM	Between Groups	12.608	1	12.608	35.800	.000
	Within Groups	3.522	10	.352		
	Total	16.129	11			

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
AEYKT	Between Groups	.468	1	.468	1165.332	.000
	Within Groups	.004	10	.000		
	Total	.472	11			
AEYKM	Between Groups	.168	1	.168	15.378	.003
	Within Groups	.109	10	.011		
	Total	.277	11			
AZAKT	Between Groups	.433	1	.433	66.171	.000
	Within Groups	.065	10	.007		
	Total	.499	11			
AZAKM	Between Groups	.542	1	.542	318.438	.000
	Within Groups	.017	10	.002		
	Total	.559	11			
KEYKT	Between Groups	1.340	1	1.340	338.244	.000
	Within Groups	.040	10	.004		
	Total	1.380	11			
KEYKM	Between Groups	.371	1	.371	245.972	.000
	Within Groups	.015	10	.002		
	Total	.386	11			
KZAKT	Between Groups	.227	1	.227	353.571	.000
	Within Groups	.006	10	.001		
	Total	.233	11			
KZAKM	Between Groups	.371	1	.371	175.972	.000
	Within Groups	.021	10	.002		
	Total	.392	11			
REYKT	Between Groups	.170	1	.170	56.645	.000
	Within Groups	.030	10	.003		
	Total	.200	11			
REYKM	Between Groups	.337	1	.337	50.539	.000
	Within Groups	.067	10	.007		
	Total	.403	11			

RZAKT	Between Groups	.195	1	.195	38.693	.000
	Within Groups	.050	10	.005		
	Total	.245	11			
RZAKM	Between Groups	.205	1	.205	192.270	.000
	Within Groups	.011	10	.001		
	Total	.216	11			

Ketebalan

Duncan

perlakuan	N	Subset for alpha = .05				
		1	2	3	4	5
3	6	.91333				
11	6	.96833	.96833			
7	6	.98083	.98083	.98083		
12	6		1.03417	1.03417	1.03417	
10	6		1.04917	1.04917	1.04917	
4	6		1.05333	1.05333	1.05333	
8	6		1.06417	1.06417	1.06417	
9	6			1.07833	1.07833	1.07833
1	6				1.08833	1.08833
6	6				1.10000	1.10000
5	6				1.11667	1.11667
2	6					1.16667
Sig.		.148	.056	.052	.110	.074

Means for groups in homogeneous subsets are displayed.

a Uses Harmonic Mean Sample Size = 6.000.

kekerasan

Duncan

perlakuan	N	Subset for alpha = .05		
		1	2	3
11	6	17.59132180		
5	6		29.59207479	
1	6		31.56395513	31.56395513
3	6		32.38752072	32.38752072
6	6		35.03527123	35.03527123
2	6		36.78141480	36.78141480
7	6		37.90206128	37.90206128
9	6		38.16517755	38.16517755
12	6		39.14706140	39.14706140
8	6		39.76664817	39.76664817

10	6			42.09371687
4	6			42.78203508
Sig.		1.000	.095	.067

Means for groups in homogeneous subsets are displayed.

a Uses Harmonic Mean Sample Size = 6.000.

kekenyalan

Duncan

perlakuan	N	Subset for alpha = .05		
		1	2	3
12	6	.01730765		
11	6	.01793812		
4	6	.02224335		
9	6	.03101274		
5	6	.03424701		
1	6	.04089315		
6	6	.04583093		
2	6	.04587326		
10	6	.04836301		
3	6	.05643666	.05643666	
7	6		.12447793	.12447793
8	6			.12909599
Sig.		.343	.050	.893

Means for groups in homogeneous subsets are displayed.

a Uses Harmonic Mean Sample Size = 6.000.

pH_sebelum

Duncan

perlakuan	N	Subset for alpha = .05						
		1	2	3	4	5	6	7
4	6	3.7883						
2	6		3.8433					
9	6		3.8583	3.8583				
12	6			3.8650	3.8650			
8	6			3.8700	3.8700			
3	6			3.8733	3.8733			
11	6				3.8833			
7	6					3.9233		
6	6					3.9367	3.9367	
1	6						3.9467	
10	6							3.9817
5	6							3.9967
Sig.		1.000	.091	.122	.058	.132	.257	.091

Means for groups in homogeneous subsets are displayed.

a Uses Harmonic Mean Sample Size = 6.000.

pH_sesudah

Duncan

perlakuan	N	Subset for alpha = .05			
		1	2	3	4
5	6	3.3283			
4	6	3.3633			
3	6		3.4933		
8	6		3.5183	3.5183	
1	6		3.5517	3.5517	3.5517
6	6		3.5850	3.5850	3.5850
12	6			3.6033	3.6033
2	6			3.6067	3.6067
9	6			3.6200	3.6200
11	6			3.6283	3.6283
10	6				3.6467
7	6				3.6483
Sig.		.473	.088	.052	.092

Means for groups in homogeneous subsets are displayed.

a Uses Harmonic Mean Sample Size = 6.000.

gula_sebelum

Duncan

perlakuan	N	Subset for alpha = .05					
		1	2	3	4	5	6
7	6	14.300					
2	6	14.667	14.667				
8	6	14.667	14.667				
4	6	14.700	14.700	14.700			
1	6	14.733	14.733	14.733			
5	6		14.900	14.900	14.900		
6	6		14.933	14.933	14.933	14.933	
9	6		15.133	15.133	15.133	15.133	
3	6			15.267	15.267	15.267	
10	6				15.383	15.383	
12	6					15.483	
11	6						16.133
Sig.		.131	.115	.052	.092	.055	1.000

Means for groups in homogeneous subsets are displayed.

a Uses Harmonic Mean Sample Size = 6.000.

gula_sesudah

Duncan

perlakuan	N	Subset for alpha = .05			
		1	2	3	4
8	6	12.733			
7	6	13.033	13.033		
9	6	13.167	13.167	13.167	
5	6	13.267	13.267	13.267	
4	6	13.433	13.433	13.433	
12	6	13.433	13.433	13.433	
11	6	13.533	13.533	13.533	
6	6		13.633	13.633	13.633
10	6		13.767	13.767	13.767
3	6			13.900	13.900
1	6			13.967	13.967
2	6				14.400
Sig.		.057	.085	.062	.060

Means for groups in homogeneous subsets are displayed.

a Uses Harmonic Mean Sample Size = 6.000.

serat_kasar

Duncan

perlakuan	N	Subset for alpha = .05				
		1	2	3	4	5
3	6	1.96200				
11	6	2.00000	2.00000			
7	6	2.00333	2.00333			
12	6	2.01250	2.01250			
10	6		2.07517	2.07517		
9	6		2.08400	2.08400	2.08400	
1	6		2.10133	2.10133	2.10133	2.10133
4	6			2.12483	2.12483	2.12483
6	6			2.14317	2.14317	2.14317
5	6			2.16433	2.16433	2.16433
8	6				2.19050	2.19050
2	6					2.20533
Sig.		.362	.078	.122	.063	.070

Means for groups in homogeneous subsets are displayed.

a Uses Harmonic Mean Sample Size = 6.000.

Lampiran 6. SPSS Uji Sensori *Nata de Banana* pada Berbagai Perlakuan

Kruskal-Wallis Test

Ranks

	perlakuan	N	Mean Rank
warna	1	30	112.72
	2	30	122.13
	3	30	133.13
	4	30	144.30
	5	30	145.72
	6	30	156.27
	7	30	169.75
	8	30	181.27
	9	30	238.98
	10	30	256.28
	11	30	278.07
	12	30	279.92
	13	30	322.97
	Total	390	
kekenyalan	1	30	153.48
	2	30	160.82
	3	30	161.68
	4	30	163.37
	5	30	167.72
	6	30	173.13
	7	30	174.20
	8	30	200.03
	9	30	203.73
	10	30	204.37
	11	30	209.95
	12	30	246.35
	13	30	322.67
	Total	390	
overall	1	30	127.95
	2	30	132.17
	3	30	149.77
	4	30	155.13
	5	30	156.95
	6	30	176.75
	7	30	178.47
	8	30	180.65
	9	30	192.28

10	30	223.70
11	30	253.88
12	30	267.40
13	30	346.40
Total	390	

Test Statistics(a,b)

	warna	kekenyalan	overall
Chi-Square	147.019	64.480	116.965
df	12	12	12
Asymp. Sig.	.000	.000	.000

a Kruskal Wallis Test

b Grouping Variable: perlakuan

