

6. DAFTAR PUSTAKA

_____. (2000). Mie Instan SNI 01-3551-2000. Badan Standarisasi Nasional.

Al Fatlawi, Arif. M. and N. M. Abas. (2010). *Investigating Peroxides and Acid Value in Used Edible Vegetable Oil*. The Iraqi of Agricultural Sciences, 41 (4) : 123-132.

AOAC. (1990). *Official Methods of Analysis Food Composition, Additives, Natural Contaminants*. Association of Official Analytical Chemist. Virginia.]

AOAC. (1999). *Official Methods of Analysis*. Association of Official Analytical Chemist. Washington D. C.

Apriyantono, A., Fardiaz, D., Puspitasari N., Sedarnawati, dan Budiyanto. (1989). *Petunjuk Laboratorium Analisis Pangan*. IPB Press. Bogor.

Astawan, M. (2003). *Membuat Mie dan Bihun*. PT. Penebar Swadaya. Jakarta.

Clifton, E. M. (1987). *Food Analysis Theory and Practice 2nd Edition*. Van Nostrand Reinhold Co. Inc. New York.

Fennema, O. R. (1985). *Food Chemistry*. Marcell Dekker, Inc. New York.

Gotoh, N., A. Iwasawa, H. Watanabe, R. Osato, and S. Wada. (2006). *Oxidation of Fats and Oils In Instant Noodle Stored under Various Conditions*. Journal of Food Lipids, 14 : 350-365.

Gotoh, N. and S. Wada. (2005). *The Importance of Peroxide Value in Assesing Food Quality and Food Safety*. Journal of the American Oil Chemists Society, 83 (5) : 473-478.

Harper, L. J., B. J. Deaton, J. A. Driskel, (1985). *Pangan Gizi dan Pertanian*. Penerjemah Suharjo. UI-Press, Jakarta.

Haryadi, (1992). *Laporan Penelitian Mie Kering dari Berbagai Pati*, TP-UGM, Yogyakarta.

Hoseney, R. C. (1994). *Cereal Science and Technology*. American Association of Cereal. Chemistry, Inc. USA.

Hutchings, J. (1999). *Food Color and Appearance 2nd edition*. Gaithersburg: Aspen.

Katz, E. E. and Labuza. 1981. *Effect of Water Activity on The Sensory Crispness and Mechanical Deformation of Snack Food Product*. *Journal Food Science*. 46 (2): 403-409

Ketaren.S., 1986. *Pengantar Teknologi Minyak dan Lemak Pangan*. UI-Press. Jakarta.

Kilcast, D and P. Subramaniam. (2000). *The Stability and Shelf Life of Food*. Woodhead Publishing Limited. England.

Kruger, J. E.; R.B. Matsuo and J. W. Dick. (1996). *Pasta and Noodle Technology*. American Association of Cereal. Chemist, Inc. Minnesota.

Lewicky, P. I.; E. Jakunczyk; A. Marzee; M. do Carmo Cabral and P. M. Pereira. (2004). *Effect of Water Activity on Mechanical Properties of Cereal Product*. *Acta Agrophysica*, 4(2) : 381-391.

Park, C. S. and B. K. Baik. (2002). *Flour Characteristics Related to Optimum Water Absorptin of Noodle Dough for Making White Salted Noodles*. *Journal of Cereal Chemistry*, 79 (6).

Rosenthal, A. J. (1999). *Food Texture: Measurement and Perception*. Gaithersburg: Aspen.

Ross, A.S. and D.W. Hatcher. (2005). *Guidlines for the Laboratory Manufacture of Asian Wheat Flour Noodles*. *Cereal Foods World*, 50 (6) : 296.

Seib, P. A. ; X. Liang; F. Guan; Y. T. Liang and H. C. Yang. (2000). *Comparison of Asian Food Noodles from Some Hard White and Hard Red Wheat Flours*. *Cereal Chemistry*, 77 (6) : 871-821.

Shima, M.; Y. Yoshida and S. Adachi. (2006). *Kinetics of The Change in The Acid Value of Palm Oil During Simulated Deep Frying*. *Japan Journal of Food Engineering*, 7 (2):113-117.

Shin, S. N. and S. K. Kim. (2003). *Properties of Instan Noodle Flours Produced in Korea*. *Cereal Foods World*, 48 (6) : 310-314.

Sudarmadji, S.; B. Haryono dan Suhardi. (1997). *Prosedur Analisa Bahan Makanan dan Pertanian*. Liberty Bekerjasama Dengan PAU Pangan dan Gizi UGM. Yogyakarta.

Sunisa, W.; U. Worapong.; S. Sunisa.; J. Saowaluck. and W. Saowaksi. (2011). *Quality Changes of Chicken Frying Oil as Affected of Frying Conditions*. *International Food Research Journal*, 18 : 615-620.

Su, S. C. ; S. S., Chou. ; P. C., Chang. ; and D. F., Huang. (2001). *Identification of Hydrogen Peroxide as a Causative Agent in Noodles Implicated in Food Poisoning*. *Journal of Food and Drugs Analysis*, 9 (4) : 220-223.

Winarno, F. G. (2002). *Kimia Pangan dan Gizi*. PT. Gramedia Pustaka Utama. Jakarta.

Yu, L. J. and M. O. Ngadi. (2004). *Textural and Other Quality Properties of Instant Fried Noodles as Affected by some Ingredients*. *Cereal Chemistry*, 81 (6) : 772-776.



7. LAMPIRAN

Lampiran 1. Syarat Mutu Mie Instan Menurut SNI 01-3551-2000

No	Kriteria Uji	Satuan	Persyaratan
1	Keadaan ²⁾		
1.1	Tekstur	-	Normal/Dapat diterima
1.2	Aroma	-	Normal/Dapat diterima
1.3	Rasa	-	Normal/Dapat diterima
1.4	Warna	-	Normal/Dapat diterima
2	Benda Asing ²⁾	-	Tidak boleh ada
3	Keutuhan ¹⁾	%bb	Min 90
4	Kadar Air ²⁾		
4.1	Proses Penggorengan	%bb	Max 10
4.2	Proses Pengeringan	%bb	Max 14,5
5	Kadar Protein ²⁾		
5.1	Mie dari terigu	%bb	Min 8,0
5.2	Mie bukan dari terigu	%bb	Min 4,0
6	Bilangan Asam ¹⁾	Mg KOH/g minyak	Max 2,0
7	Cemaran Logam ²⁾		
7.1	Timbal (Pb)		Max 2,0
7.2	Raksa (Hg)	mg/kg	Max 0,05
8	Arsen (As) ²⁾	mg/kg	Max 0,5
9	Cemaran Mikroba ²⁾		
9.1	Angka lempeng total	Koloni/g	Max 1×10^6
9.2	E. Coli	APM/g	3
9.3	Salmonela	-	Negatif per 25 g
9.4	Kapang	Koloni/g	Max 1×10^3

Keterangan : 1) berlaku untuk keping mie

2) berlaku untuk keping mie dan bumbu

Lampiran 2. Uji SPSS *One Way ANOVA* dan Post Hoc Duncan

Minggu Ke-0

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
PV	Between Groups	.250	3	.083	.036	.990
	Within Groups	27.500	12	2.292		
	Total	27.750	15			
AV	Between Groups	.199	3	.066	23.036	.000
	Within Groups	.034	12	.003		
	Total	.233	15			
KADAR_AIR	Between Groups	3.881	3	1.294	13.691	.000
	Within Groups	1.134	12	.094		
	Total	5.014	15			
TEKSTUR	Between Groups	227799.645	3	75933.215	.091	.963
	Within Groups	9987945.255	12	832328.771		
	Total	1.022E7	15			

PV

Duncan

MERK	N	Subset for alpha = 0.05
		1
2	4	11.7500
3	4	11.7500
1	4	12.0000
4	4	12.0000
Sig.		.832

Means for groups in homogeneous subsets are displayed.

AV

Duncan

MERK	N	Subset for alpha = 0.05	
		1	2
4	4	.37587	
3	4	.44319	
2	4	.46002	
1	4		.67320
Sig.		.056	1.000

Means for groups in homogeneous subsets are displayed.

KADAR_AIR

Duncan

MERK	N	Subset for alpha = 0.05		
		1	2	3
4	4	4.6625		
2	4		5.2500	
1	4		5.3125	
3	4			6.0500
Sig.		1.000	.779	1.000

Means for groups in homogeneous subsets are displayed.

TEKSTUR

Duncan

MERK	N	Subset for alpha = 0.05
		1
2	4	3328.0250
4	4	3410.7000
1	4	3590.7750
3	4	3609.9000
Sig.		.692

Means for groups in homogeneous subsets are displayed.

Minggu Pertama

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
PV	Between Groups	28.250	3	9.417	3.183	.063
	Within Groups	35.500	12	2.958		
	Total	63.750	15			
AV	Between Groups	.004	3	.001	.784	.525
	Within Groups	.021	12	.002		
	Total	.025	15			
KADAR_AIR	Between Groups	2.797	3	.932	15.702	.000
	Within Groups	.712	12	.059		
	Total	3.509	15			
TEKSTUR	Between Groups	1.018E7	3	3393243.013	10.987	.001
	Within Groups	3706201.520	12	308850.127		
	Total	1.389E7	15			

PV

Duncan

MERK	N	Subset for alpha = 0.05	
		1	2
1	4	13.7500	
4	4	14.0000	
2	4	15.7500	15.7500
3	4		17.0000
Sig.		.143	.324

Means for groups in homogeneous subsets are displayed.

AV

Duncan

MERK	N	Subset for alpha = 0.05	
		1	
1	4		.23001
4	4		.25806
2	4		.26928
3	4		.26928
Sig.			.242

Means for groups in homogeneous subsets are displayed.

TEKSTUR

Duncan

MERK	N	Subset for alpha = 0.05	
		1	2
3	4	2.0494E3	
1	4	2.0916E3	
2	4	2.4868E3	
4	4		4.0088E3
Sig.		.311	1.000

Means for groups in homogeneous subsets are displayed.

KADAR_AIR

Duncan

MERK	N	Subset for alpha = 0.05		
		1	2	3
4	4	5.1250		
1	4		5.5750	
2	4		5.8500	
3	4			6.2750
Sig.		1.000	.136	1.000

Means for groups in homogeneous subsets are displayed.

Minggu Kedua**ANOVA**

		Sum of Squares	df	Mean Square	F	Sig.
PV	Between Groups	16.250	3	5.417	1.831	.195
	Within Groups	35.500	12	2.958		
	Total	51.750	15			
AV	Between Groups	.006	3	.002	.971	.438
	Within Groups	.026	12	.002		
	Total	.032	15			
KADAR_AIR	Between Groups	5.382	3	1.794	17.538	.000
	Within Groups	1.228	12	.102		
	Total	6.609	15			
TEKSTUR	Between Groups	6381702.928	3	2127234.309	11.010	.001
	Within Groups	2318431.690	12	193202.641		
	Total	8700134.618	15			

PV

Duncan

MERK	N	Subset for alpha = 0.05	
			1
4	4		18.0000
3	4		18.2500
2	4		20.0000
1	4		20.2500
Sig.			.112

Means for groups in homogeneous subsets are displayed.

AV

Duncan

MERK	N	Subset for alpha = 0.05	
			1
4	4		.21879
2	4		.24684
3	4		.24684
1	4		.27489
Sig.			.139

Means for groups in homogeneous subsets are displayed.

KADAR_AIR

Duncan

MERK	N	Subset for alpha = 0.05		
		1	2	3
4	4	5.9000		
3	4		6.4000	
2	4			7.1000
1	4			7.3750
Sig.		1.000	1.000	.247

Means for groups in homogeneous subsets are displayed.

TEKSTUR

Duncan

MERK	N	Subset for alpha = 0.05	
		1	2
3	4	1.3722E3	
1	4	1.6060E3	
2	4	1.6746E3	
4	4		2.9863E3
Sig.		.373	1.000

Means for groups in homogeneous subsets are displayed.

Minggu Ketiga

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
PV	Between Groups	4.250	3	1.417	.507	.684
	Within Groups	33.500	12	2.792		
	Total	37.750	15			
AV	Between Groups	.274	3	.091	14.453	.000
	Within Groups	.076	12	.006		
	Total	.350	15			
KADAR_AIR	Between Groups	4.295	3	1.432	15.271	.000
	Within Groups	1.125	12	.094		
	Total	5.420	15			
TEKSTUR	Between Groups	2013651.040	3	671217.013	8.565	.003
	Within Groups	940378.008	12	78364.834		
	Total	2954029.048	15			

PV

Duncan

MERK	N	Subset for alpha = 0.05
		1
2	4	24.2500
4	4	24.5000
3	4	25.2500
1	4	25.5000
Sig.		.346

Means for groups in homogeneous subsets are displayed.

AV

Duncan

MERK	N	Subset for alpha = 0.05	
		1	2
2	4	.23562	
4	4	.26928	
3	4	.30294	
1	4		.56661
Sig.		.277	1.000

Means for groups in homogeneous subsets are displayed.

KADAR_AIR

Duncan

MERK	N	Subset for alpha = 0.05		
		1	2	3
4	4	6.3500		
3	4		6.9000	
2	4			7.4750
1	4			7.6750
Sig.		1.000	1.000	.374

Means for groups in homogeneous subsets are displayed.

TEKSTUR

Duncan

MERK	N	Subset for alpha = 0.05		
		1	2	3
2	4	1.3910E3		
3	4	1.5911E3	1.5911E3	
4	4		1.8524E3	
1	4			2.3385E3
Sig.		.332	.212	1.000

Means for groups in homogeneous subsets are displayed.

Minggu Keempat**ANOVA**

		Sum of Squares	df	Mean Square	F	Sig.
PV	Between Groups	6.250	3	2.083	.746	.545
	Within Groups	33.500	12	2.792		
	Total	39.750	15			
AV	Between Groups	.101	3	.034	5.736	.011
	Within Groups	.070	12	.006		
	Total	.171	15			
KADAR_AIR	Between Groups	1.745	3	.582	10.822	.001
	Within Groups	.645	12	.054		
	Total	2.390	15			
TEKSTUR	Between Groups	1369586.322	3	456528.774	10.380	.001
	Within Groups	527793.272	12	43982.773		
	Total	1897379.594	15			

PV

Duncan

MERK	N	Subset for alpha = 0.05	
		1	
4	4	29.7500	
2	4	30.5000	
1	4	30.7500	
3	4	31.5000	
Sig.			.195

Means for groups in homogeneous subsets are displayed.

AV

Duncan

MERK	N	Subset for alpha = 0.05	
		1	2
4	4	.39270	
2	4		.51051
3	4		.54417
1	4		.61149
Sig.		1.000	.100

Means for groups in homogeneous subsets are displayed.

KADAR_AIR

Duncan

MERK	N	Subset for alpha = 0.05		
		1	2	3
4	4	7.7250		
2	4		8.2250	
3	4		8.3000	8.3000
1	4			8.6500
Sig.		1.000	.655	.054

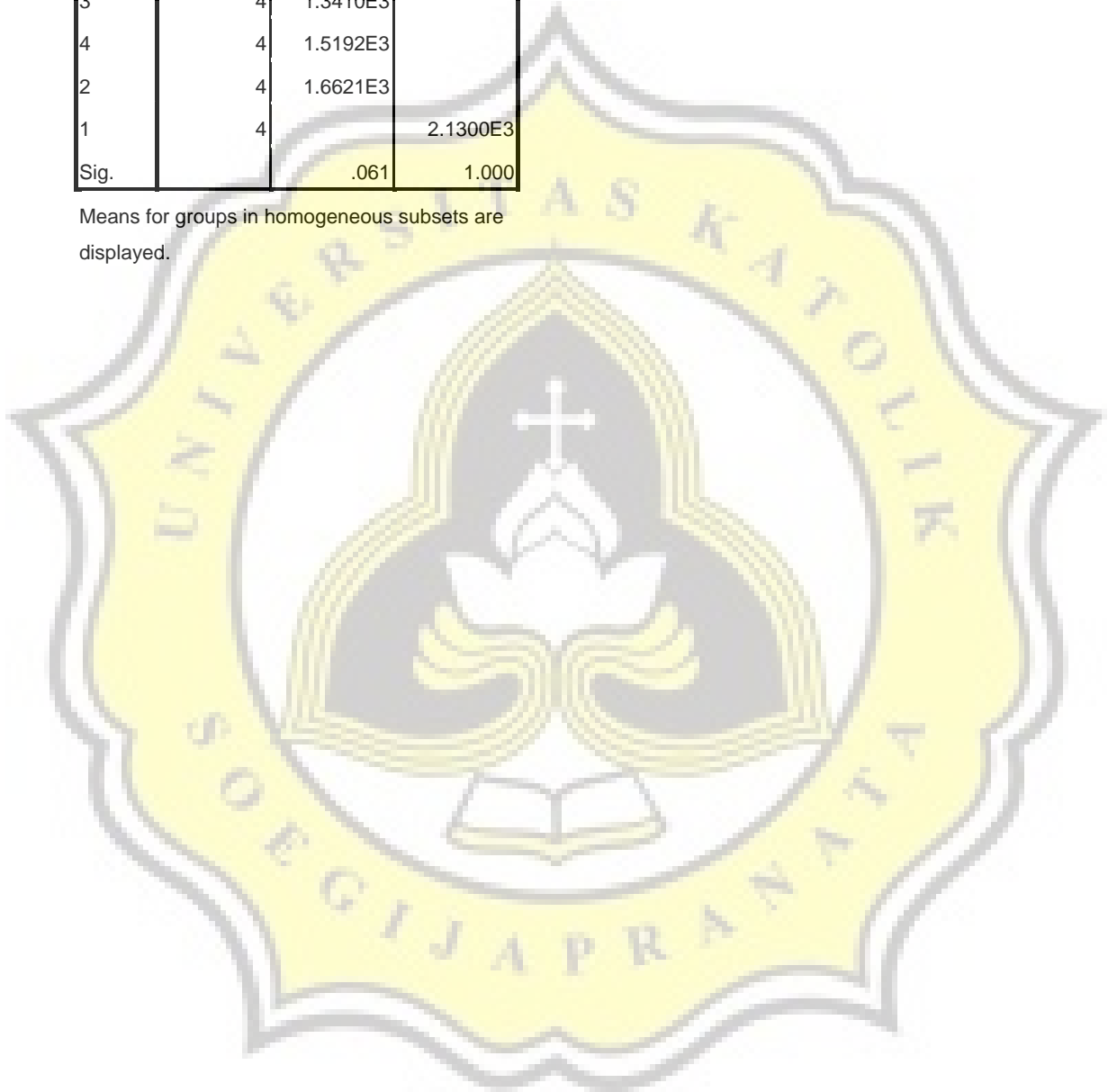
Means for groups in homogeneous subsets are displayed.

TEKSTUR

Duncan

MERK	N	Subset for alpha = 0.05	
		1	2
3	4	1.3410E3	
4	4	1.5192E3	
2	4	1.6621E3	
1	4		2.1300E3
Sig.		.061	1.000

Means for groups in homogeneous subsets are displayed.



**Lampiran 3. Analisa SPSS Korelasi Antar Parameter Uji
Interaksi Bilangan Peroksida, Bilangan Asam dan Kadar Air**

Correlations

		AV	PV	KADAR_AIR
AV	Pearson Correlation	1	.230*	.265*
	Sig. (2-tailed)		.040	.017
	N	80	80	80
PV	Pearson Correlation	.230*	1	.891**
	Sig. (2-tailed)	.040		.000
	N	80	80	80
KADAR_AIR	Pearson Correlation	.265*	.891**	1
	Sig. (2-tailed)	.017	.000	
	N	80	80	80

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

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

Terima Kasih.