

7. LAMPIRAN

Lampiran 1. Batas Cemaran Mikroba dalam Bahan Pangan (SNI 7388:2009)

No.

Kategori Kategori Pangan Jenis Cemaran Mikroba Batas Maksimum
Pangan

14.1.2 Sari buah dan sari sayuran

Sari buah	Angka Lempeng Total	1×10^4 koloni/ml
	Koliform	2×10^1 koloni/ml
	APM <i>Escherichia coli</i>	<3/ml
	<i>Salmonella sp</i>	Negatif/25 ml
	<i>Staphylococcus aureus</i>	Negatif/ ml
	Kapang dan Khamir	1×10^2 koloni/ml

Lampiran 2. Uji Post Hoc Duncan

nilai_pH

Duncan^a

hari	N	Subset for alpha = .05				
		1	2	3	4	5
hari 14	3	3,5400				
hari 6	3	3,5567	3,5567			
hari 12	3	3,5667	3,5667			
hari 10	3	3,5767	3,5767			
hari 8	3		3,5800			
hari 4	3			3,6300		
hari 2	3				3,8967	
hari 0	3					4,5067
Sig.		,056	,211	1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

nilai_pH

Duncan^a

hari	N	Subset for alpha = .05			
		1	2	3	4
hari 4	3	4,3467			
hari 14	3		4,3800		
hari 6	3		4,3933	4,3933	
hari 10	3		4,3933	4,3933	
hari 12	3		4,3933	4,3933	
hari 8	3			4,4100	
hari 0	3				4,4333
hari 2	3				4,4533
Sig.		1,000	,237	,144	,063

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

nilai_pH

Duncan^a

hari	N	Subset for alpha = .05			
		1	2	3	4
hari 14	3	4,6267			
hari 12	3	4,6433			
hari 4	3		4,6667		
hari 8	3		4,6700		
hari 10	3		4,6700		
hari 6	3		4,6900	4,6900	
hari 0	3			4,7100	
hari 2	3				4,7533
Sig.		,147	,066	,086	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

nilai_pH

Duncan^a

hari	N	Subset for alpha = .05				
		1	2	3	4	5
hari 14	3	4,5933				
hari 12	3		4,6233			
hari 10	3		4,6333	4,6333		
hari 8	3			4,6600	4,6600	
hari 6	3				4,6700	
hari 4	3					4,7067
hari 0	3					4,7133
hari 2	3					4,7367
Sig.		1,000	,481	,072	,481	,055

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

nilai_pH

Duncan^a

hari	N	Subset for alpha = .05				
		1	2	3	4	5
hari 14	3	4,6700				
hari 12	3	4,6767				
hari 10	3	4,6967	4,6967			
hari 8	3		4,7167	4,7167		
hari 4	3		4,7200	4,7200	4,7200	
hari 0	3			4,7267	4,7267	
hari 6	3				4,7467	4,7467
hari 2	3					4,7633
Sig.		,061	,097	,463	,061	,204

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

nilai_Aw

Duncan^a

hari	N	Subset for alpha = .05				
		1	2	3	4	5
hari 2	3	,93933				
hari 0	3	,94000	,94000			
hari 14	3	,94167	,94167	,94167		
hari 4	3		,94467	,94467	,94467	
hari 12	3			,94600	,94600	,94600
hari 6	3				,94767	,94767
hari 10	3				,94800	,94800
hari 8	3					,95000
Sig.		,314	,053	,070	,168	,102

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

nilai_Aw

Duncan^a

hari	N	Subset for alpha = .05	
		1	2
hari 2	3	,93000	
hari 10	3	,93167	
hari 8	3	,93200	
hari 14	3	,93233	
hari 6	3	,93300	
hari 12	3	,93333	
hari 0	3	,93567	,93567
hari 4	3		,93967
Sig.		,091	,171

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

nilai_Aw

Duncan^a

hari	N	Subset for alpha = .05		
		1	2	3
hari 6	3	,92800		
hari 8	3	,92933		
hari 10	3	,92967		
hari 12	3	,93400	,93400	
hari 14	3	,93533	,93533	
hari 2	3		,93800	
hari 0	3			,94533
hari 4	3			,94733
Sig.		,060	,266	,551

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

nilai_Aw

Duncan^a

hari	N	Subset for alpha = .05		
		1	2	3
hari 14	3	,92700		
hari 12	3	,92800		
hari 0	3	,92933		
hari 6	3	,92967		
hari 10	3	,93133	,93133	
hari 8	3	,93200	,93200	
hari 4	3		,93667	,93667
hari 2	3			,94033
Sig.		,092	,058	,161

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

nilai_Aw

Duncan^a

hari	N	Subset for alpha = .05		
		1	2	3
hari 14	3	,93233		
hari 12	3	,93567		
hari 10	3		,93933	
hari 8	3		,93967	
hari 6	3		,94100	
hari 0	3		,94300	
hari 4	3			,94867
hari 2	3			,94967
Sig.		,069	,064	,566

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

nilai_gula

Duncan^a

hari	N	Subset for alpha = .05			
		1	2	3	4
hari 14	3	8,56667			
hari 12	3		9,26667		
hari 10	3		9,43333		
hari 8	3		9,83333	9,83333	
hari 2	3			10,33333	10,33333
hari 6	3			10,33333	10,33333
hari 4	3			10,36667	10,36667
hari 0	3				10,56667
Sig.		1,000	,069	,094	,449

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

nilai_gula

Duncan^a

hari	N	Subset for alpha = .05				
		1	2	3	4	5
hari 14	3	8,66667				
hari 12	3		9,23333			
hari 8	3			9,80000		
hari 4	3			9,90000		
hari 10	3			9,93333		
hari 6	3			10,03333	10,03333	
hari 2	3				10,20000	
hari 0	3					10,53333
Sig.		1,000	1,000	,086	,176	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

nilai_gula

Duncan^a

hari	N	Subset for alpha = .05				
		1	2	3	4	5
hari 14	3	9,03333				
hari 12	3	9,26667				
hari 8	3		9,66667			
hari 10	3			9,93333		
hari 6	3			10,13333	10,13333	
hari 2	3				10,23333	
hari 4	3				10,33333	
hari 0	3					10,60000
Sig.		,070	1,000	,116	,133	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

nilai_gula

Duncan^a

hari	N	Subset for alpha = .05				
		1	2	3	4	5
hari 14	3	9,33333				
hari 12	3	9,50000	9,50000			
hari 8	3		9,70000	9,70000		
hari 10	3			9,93333	9,93333	
hari 6	3			9,96667	9,96667	
hari 4	3			10,03333	10,03333	10,03333
hari 2	3				10,23333	10,23333
hari 0	3					10,36667
Sig.		,315	,231	,073	,104	,066

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

nilai_gula

Duncan^a

hari	N	Subset for alpha = .05		
		1	2	3
hari 14	3	9,06667		
hari 12	3	9,56667	9,56667	
hari 10	3	9,60000	9,60000	
hari 6	3		10,06667	10,06667
hari 8	3		10,16667	10,16667
hari 2	3		10,20000	10,20000
hari 4	3		10,23333	10,23333
hari 0	3			10,53333
Sig.		,159	,101	,236

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.



Lampiran 3. Perubahan Aktivitas Air Minuman Jeli Mentimun selama Penyimpanan

Perlakuan Penambahan Pengawet	Lama Penyimpanan (Hari)							
	0	2	4	6	8	10	12	14
Kontrol	0,940 ^{de}	0,939 ^e	0,945 ^{bcd}	0,948 ^{ab}	0,950 ^a	0,948 ^{ab}	0,946 ^{abc}	0,942 ^{cde}
Natrium Benzoat 0,2%	0,936 ^{ab}	0,930 ^b	0,940 ^a	0,933 ^b	0,932 ^b	0,932 ^b	0,933 ^b	0,932 ^b
Kalium Sorbat 0,2%	0,945 ^a	0,938 ^b	0,947 ^a	0,928 ^c	0,929 ^c	0,930 ^c	0,934 ^{bc}	0,935 ^{bc}
Natrium Benzoat 0,1% + Kalium Sorbat 0,1%	0,929 ^c	0,940 ^a	0,937 ^{ab}	0,930 ^c	0,932 ^{bc}	0,931 ^{bc}	0,928 ^c	0,927 ^c
Natrium Benzoat 0,05% + Kalium Sorbat 0,15%	0,943 ^b	0,950 ^a	0,949 ^a	0,941 ^b	0,940 ^b	0,939 ^b	0,936 ^c	0,932 ^c

Keterangan :

- Huruf a, b, c, d, e pada *superscript* menunjukkan adanya perbedaan nyata pada nilai nilai aktivitas air (Aw) berdasarkan perlakuan lama penyimpanan yang dilakukan.
- Pembacaan dilakukan pada setiap perlakuan.

Lampiran 4. Perhitungan Perubahan pH selama 14 Hari Penyimpanan

$$\text{Perlakuan kontrol} = \frac{4,507-3,540}{4,507} \times 100\% = 21,45\%$$

$$\text{Natrium Benzoat 0,2\%} = \frac{4,433-4,380}{4,433} \times 100\% = 1,19\%$$

$$\text{Kalium Sorbat 0,2\%} = \frac{4,710-4,627}{4,710} \times 100\% = 1,76\%$$

$$\text{Natrium Benzoat 0,1\% + Kalium Sorbat 0,1\%} = \frac{4,713-4,593}{4,713} \times 100\% = 2,55\%$$

$$\text{Natrium Benzoat 0,05\% + Kalium Sorbat 0,15\%} = \frac{4,727-4,593}{4,727} \times 100\% = 1,21\%$$

Lampiran 5. Perhitungan Perubahan Tingkat Kemanisan selama 14 Hari Penyimpanan

$$\text{Perlakuan kontrol} = \frac{10,567-8,567}{10,567} \times 100\% = 18,93\%$$

$$\text{Natrium Benzoat 0,2\%} = \frac{10,533-8,567}{10,533} \times 100\% = 18,67\%$$

$$\text{Kalium Sorbat 0,2\%} = \frac{10,600-9,033}{10,600} \times 100\% = 14,78\%$$

$$\text{Natrium Benzoat 0,1\% + Kalium Sorbat 0,1\%} = \frac{10,367-9,333}{10,367} \times 100\% = 9,97\%$$

$$\text{Natrium Benzoat 0,05\% + Kalium Sorbat 0,15\%} = \frac{10,533-9,067}{10,533} \times 100\% = 13,92\%$$

Lampiran 6. Perhitungan Perubahan Tingkat Kecerahan selama 14 Hari Penyimpanan

$$\text{Perlakuan kontrol} = \frac{59,64 - 54,15}{59,64} \times 100\% = 9,21\%$$

$$\text{Natrium Benzoat 0,2\%} = \frac{58,30 - 53,26}{58,30} \times 100\% = 8,65\%$$

$$\text{Kalium Sorbat 0,2\%} = \frac{52,92 - 48,94}{52,92} \times 100\% = 5,63\%$$

$$\text{Natrium Benzoat 0,1\% + Kalium Sorbat 0,1\%} = \frac{57,42 - 54,47}{57,42} \times 100\% = 5,17\%$$

$$\text{Natrium Benzoat 0,05\% + Kalium Sorbat 0,15\%} = \frac{57,47 - 52,36}{57,47} \times 100\% = 8,89\%$$



