Lampiran 1. SNI 01-2721-1992 : Ikan Asin Kering

STANDAR IKAN ASIN KERING

SPI-KAN-02-03-0983

1. Pendahuluan

   Standar ikan asin kering di susun mengingat bahwa produk ini banyak di produksi dan digemari oleh masyarakat Indonesia.

   Di dalam pengolahan ikan asin kering masih banyak mempergunakan cara dan peralatan yang sangat sederhana serta tidak selalu memenuhi persyaratan sanitasi dan hygiene.

2. Ruang Lingkup

   Standar ini meliputi persyaratan bahan yang mencakup : bahan baku, bahan pembantu dan bahan tambahan, persyaratan tehnis, sanitasi dan hygiene yang mencakup : cara penanganan, cara pengolahan, cara pengemasan, cara pemberian label dan merk serta cara penyimpanan; persyaratan mutu dan analisis yang mencakup : mutu produk akhir, cara pengambilan contoh dan analisis.

3. Diskripsi

   Ikan asin kering adalah suatu produk olahan ikan dalam bentuk utuh atau disiangi dengan atau tanpa mengalami perlakuan (seperti perebusan, pemasakan dan lain-lain) dengan prinsip penggaraman dan pengeringan.

4. Klasifikasi

   Tingkatan mutu ikan asin kering digolongkan dalam 1 (satu) tingkatan mutu.

5. Persyaratan

Bahan baku ikan harus memenuhi persyaratan kesegaran, kebersihan dan kesehatan, sesuai dengan SPI-KAN-01-1982.

Bahan pembantu dan tambahan yang dipakai harus tidak merusak atau menguban komposisi dan sifat khas ikan asin kering, jenis dan dosis harus sesuai dengan persyaratan yang berlaku dari Departemen Kesehatan Republik Indonesia.

Teknis, Sanitasi dan Hygiene

Produk ikan asin kering harus ditangani, diolah, dikemas, disimpan, didistribusikan dan dipasarkan pada tempat-tempat, cara dan alat-alat yang hygiene dan saniter sesuai dengan SPI-KAN-SPP-1981.

Mutu ikan asin kering ditetapkan sebagai berikut :

Karakteristik	Persyaratan Mutu
a. Organoleptik min.	6.5
b. Mikrobiologi :	
- *Escherichia coli*, MPN/gr. maks.	0
- *Salmonella* *)	negatif
- *Vibrio cholera* *)	negatif
- Kapang	negatif
c. Kimia :	
- Air, %, bobot/bobot.	35 – 45
- Abu tak larut dalam asam, %, bobot/bobot, maks.	1,5

*) Bila diperlukan

Pengemasan.

a. Bahan pengemas yang diperlukan harus memiliki sifat-sifat tidak mencemari isi, melindungi produk dan kontaminasi dari luar.
b. Berat satuan produk harus sesuai dengan label yang dicantumkan.

6. Pengambilan contoh dan Analisis

Pengambilan contoh, sesuai dengan petunjuk yang ditetapkan SPI-KAN-PPC-1976.

Analisis

Analisis ditetapkan sebagai berikut :

Karakteristik	Kode
a. Organoleptik :	SPI-KAN-PPO-1978
b. Mikrobiologi :	
- *Escherichia coli*	SPI-KAN-PPM-1978 1.5.b.
- *Salmonella*	SPI-KAN-PPM-1978 1.5.c.
- *Vibrio cholera*	SPI-KAN-PPM-1978 IV.10
- Kapang	SPI-KAN-PPO-1978
c. Kimia :	
- Air	SPI-KAN-PPK-1981-V
- Abu tak larut dalam asam	SPI-KAN-PPK-1981-VIII

Lampiran 2. Data Statistik (SPSS)

Kontrol Per Hari

Descriptives

		N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
						Lower Bound	Upper Bound		
Kadar Air	.00	9	33.4622	.21159	.07053	33.2996	33.6249	33.10	33.77
	5.00	9	35.0800	.13720	.04573	34.9745	35.1855	34.89	35.26
	10.00	9	36.1467	.16294	.05431	36.0214	36.2719	35.90	36.38
	15.00	9	37.3722	.19156	.06385	37.2250	37.5195	37.15	37.79
	20.00	9	38.2156	.10418	.03473	38.1355	38.2956	38.03	38.38
	25.00	9	39.1522	.17775	.05925	39.0156	39.2889	38.91	39.43
	30.00	9	40.3922	.22242	.07414	40.2213	40.5632	40.03	40.65
	Total	63	37.1173	2.24706	.28310	36.5514	37.6832	33.10	40.65
Kadar TVB	.00	9	47.9056	1.52557	.50852	46.7329	49.0782	46.28	49.20
	5.00	9	64.7300	1.44003	.48001	63.6231	65.8369	63.77	66.67
	10.00	9	88.3222	1.53488	.51163	87.1424	89.5020	87.02	89.96
	15.00	9	109.4056	1.44180	.48060	108.2973	110.5138	107.45	110.40
	20.00	9	134.6967	1.46523	.48841	133.5704	135.8229	133.69	136.65
	25.00	9	161.0022	1.44379	.48126	159.8924	162.1120	159.98	162.95
	30.00	9	181.9078	1.50622	.50207	180.7500	183.0656	180.61	183.53
	Total	63	112.5671	46.23272	5.82477	100.9236	124.2107	46.28	183.53
Kadar TBA	.00	9	.1811	.01054	.00351	.1730	.1892	.17	.20
	5.00	9	.2978	.02635	.00878	.2775	.3180	.26	.34
	10.00	9	.3500	.01323	.00441	.3398	.3602	.33	.36
	15.00	9	.4567	.02598	.00866	.4367	.4766	.40	.48
	20.00	9	.5233	.02398	.00799	.5049	.5418	.49	.55
	25.00	9	.6222	.01986	.00662	.6070	.6375	.58	.65
	30.00	9	1.0411	.07305	.02435	.9850	1.0973	.90	1.14
	Total	63	.4960	.26457	.03333	.4294	.5627	.17	1.14
Kadar TMA	.00	9	.2200	.01500	.00500	.2085	.2315	.20	.23
	5.00	9	.3533	.02345	.00782	.3353	.3714	.32	.38
	10.00	9	.4833	.02915	.00972	.4609	.5057	.46	.52
	15.00	9	.7833	.02179	.00726	.7666	.8001	.76	.81
	20.00	9	.9600	.02598	.00866	.9400	.9800	.93	.99
	25.00	9	1.1078	.01787	.00596	1.0940	1.1215	1.08	1.13
	30.00	9	1.2933	.02179	.00726	1.2766	1.3101	1.25	1.31
	Total	63	.7430	.37729	.04753	.6480	.8380	.20	1.31
Kadar Garam	.00	9	18.3556	.05077	.01692	18.3165	18.3946	18.29	18.40
	5.00	9	17.8811	.05134	.01711	17.8416	17.9206	17.83	17.94
	10.00	9	17.5067	.05074	.01691	17.4677	17.5457	17.46	17.56
	15.00	9	16.9467	.04610	.01537	16.9112	16.9821	16.90	17.00
	20.00	9	16.2100	.05244	.01748	16.1697	16.2503	16.15	16.26
	25.00	9	15.6389	.04859	.01620	15.6015	15.6762	15.59	15.69
	30.00	9	14.9822	.04790	.01597	14.9454	15.0190	14.94	15.04
	Total	63	16.7887	1.15088	.14500	16.4989	17.0786	14.94	18.40

Descriptives

Akt Anti Oksidan

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
.00	3	5.0000	.73614	.42501	3.1713	6.8287	4.15	5.43
5.00	3	4.5533	.52157	.30113	3.2577	5.8490	4.01	5.05
10.00	3	3.1633	.92738	.53542	.8596	5.4671	2.20	4.05
15.00	3	2.1633	.63736	.36798	.5800	3.7466	1.56	2.83
20.00	3	1.2500	.65207	.37647	-.3698	2.8698	.57	1.87
25.00	3	.5333	.19858	.11465	.0400	1.0266	.31	.69
30.00	3	.1133	.02309	.01333	.0560	.1707	.10	.14
Total	21	2.3967	1.88818	.41203	1.5372	3.2562	.10	5.43

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
Kadar Air	Between Groups	311.305	6	51.884	1660.253	.000
	Within Groups	1.750	56	.031		
	Total	313.055	62			
Kadar TVB	Between Groups	132400.1	6	22066.682	10072.323	.000
	Within Groups	122.686	56	2.191		
	Total	132522.8	62			
Kadar TBA	Between Groups	4.276	6	.713	626.662	.000
	Within Groups	.064	56	.001		
	Total	4.340	62			
Kadar TMA	Between Groups	8.797	6	1.466	2875.275	.000
	Within Groups	.029	56	.001		
	Total	8.826	62			
Kadar Garam	Between Groups	81.982	6	13.664	5522.467	.000
	Within Groups	.139	56	.002		
	Total	82.121	62			

ANOVA

Akt Anti Oksidan

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	66.214	6	11.036	30.349	.000
Within Groups	5.091	14	.364		
Total	71.304	20			

Post Hoc Tests
Homogeneous Subsets

Kadar Air

Duncan [a]

Hari	N	Subset for alpha = .05						
		1	2	3	4	5	6	7
.00	9	33.4622						
5.00	9		35.0800					
10.00	9			36.1467				
15.00	9				37.3722			
20.00	9					38.2156		
25.00	9						39.1522	
30.00	9							40.3922
Sig.		1.000	1.000	1.000	1.000	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 9.000.

Kadar TVB

Duncan [a]

Hari	N	Subset for alpha = .05						
		1	2	3	4	5	6	7
.00	9	47.9056						
5.00	9		64.7300					
10.00	9			88.3222				
15.00	9				109.4056			
20.00	9					134.6967		
25.00	9						161.0022	
30.00	9							181.9078
Sig.		1.000	1.000	1.000	1.000	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 9.000.

Kadar TBA

Duncan [a]

Hari	N	Subset for alpha = .05						
		1	2	3	4	5	6	7
.00	9	.1811						
5.00	9		.2978					
10.00	9			.3500				
15.00	9				.4567			
20.00	9					.5233		
25.00	9						.6222	
30.00	9							1.0411
Sig.		1.000	1.000	1.000	1.000	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 9.000.

Kadar TMA

Duncan [a]

Hari	N	Subset for alpha = .05						
		1	2	3	4	5	6	7
.00	9	.2200						
5.00	9		.3533					
10.00	9			.4833				
15.00	9				.7833			
20.00	9					.9600		
25.00	9						1.1078	
30.00	9							1.2933
Sig.		1.000	1.000	1.000	1.000	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 9.000.

Kadar Garam

Duncan [a]

Hari	N	Subset for alpha = .05						
		1	2	3	4	5	6	7
30.00	9	14.9822						
25.00	9		15.6389					
20.00	9			16.2100				
15.00	9				16.9467			
10.00	9					17.5067		
5.00	9						17.8811	
.00	9							18.3556
Sig.		1.000	1.000	1.000	1.000	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 9.000.

Akt Anti Oksidan

Duncan [a]

Hari	N	Subset for alpha = .05				
		1	2	3	4	5
30.00	3	.1133				
25.00	3	.5333	.5333			
20.00	3		1.2500	1.2500		
15.00	3			2.1633	2.1633	
10.00	3				3.1633	
5.00	3					4.5533
.00	3					5.0000
Sig.		.408	.168	.085	.062	.380

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

Kunyit Per Hari

Descriptives

		N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
						Lower Bound	Upper Bound		
Kadar Air	.00	9	33.4378	.22236	.07412	33.2669	33.6087	33.10	33.78
	5.00	9	35.0789	.15431	.05144	34.9603	35.1975	34.87	35.36
	10.00	9	36.1100	.12679	.04226	36.0125	36.2075	35.96	36.38
	15.00	9	37.3089	.17489	.05830	37.1745	37.4433	37.06	37.58
	20.00	9	38.2033	.19698	.06566	38.0519	38.3547	37.95	38.57
	25.00	9	39.1556	.25190	.08397	38.9619	39.3492	38.81	39.43
	30.00	9	40.3744	.12095	.04032	40.2815	40.4674	40.23	40.55
	Total	63	37.0956	2.25066	.28356	36.5287	37.6624	33.10	40.55
Kadar TVB	.00	9	47.9056	1.52319	.50773	46.7347	49.0764	46.29	49.20
	5.00	9	73.7422	1.53478	.51159	72.5625	74.9220	72.44	75.36
	10.00	9	92.5100	.97130	.32377	91.7634	93.2566	89.92	92.86
	15.00	9	128.7667	1.45521	.48507	127.6481	129.8852	127.78	130.74
	20.00	9	152.1200	1.45531	.48510	151.0014	153.2386	151.13	154.10
	25.00	9	175.4300	1.60002	.53334	174.2001	176.6599	173.38	177.56
	30.00	9	196.1500	1.45500	.48500	195.0316	197.2684	195.18	198.09
	Total	63	123.8035	51.09469	6.43733	110.9355	136.6715	46.29	198.09
Kadar TBA	.00	9	.1856	.00726	.00242	.1800	.1911	.18	.20
	5.00	9	.3133	.02449	.00816	.2945	.3322	.26	.34
	10.00	9	.3911	.01167	.00389	.3821	.4001	.37	.40
	15.00	9	.5022	.01787	.00596	.4885	.5160	.48	.53
	20.00	9	.5622	.01856	.00619	.5480	.5765	.53	.59
	25.00	9	.6689	.02619	.00873	.6488	.6890	.63	.70
	30.00	9	1.1344	.14336	.04779	1.0242	1.2446	.87	1.32
	Total	63	.5368	.29294	.03691	.4630	.6106	.18	1.32
Kadar TMA	.00	9	.2433	.02646	.00882	.2230	.2637	.20	.29
	5.00	9	.3889	.02804	.00935	.3673	.4104	.35	.43
	10.00	9	.5267	.02000	.00667	.5113	.5420	.49	.55
	15.00	9	.8100	.02121	.00707	.7937	.8263	.78	.84
	20.00	9	1.0533	.02345	.00782	1.0353	1.0714	1.02	1.08
	25.00	9	1.1933	.02345	.00782	1.1753	1.2114	1.16	1.22
	30.00	9	1.3700	.03000	.01000	1.3469	1.3931	1.31	1.40
	Total	63	.7979	.39984	.05037	.6972	.8986	.20	1.40
Kadar Garam	.00	9	18.3267	.04183	.01394	18.2945	18.3588	18.30	18.40
	5.00	9	17.8700	.04500	.01500	17.8354	17.9046	17.84	17.93
	10.00	9	17.4967	.04770	.01590	17.4600	17.5333	17.46	17.56
	15.00	9	16.9456	.04720	.01573	16.9093	16.9818	16.90	17.00
	20.00	9	16.1867	.04528	.01509	16.1519	16.2215	16.15	16.25
	25.00	9	15.6367	.04848	.01616	15.5994	15.6739	15.59	15.69
	30.00	9	14.9844	.05053	.01684	14.9456	15.0233	14.94	15.04
	Total	63	16.7781	1.14415	.14415	16.4899	17.0662	14.94	18.40

Descriptives

Akt Anti Oksidan

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
.00	3	15.1700	1.75502	1.01326	10.8103	19.5297	13.42	16.93
5.00	3	13.1167	.94044	.54297	10.7805	15.4529	12.24	14.11
10.00	3	10.3533	.75923	.43834	8.4673	12.2394	9.91	11.23
15.00	3	8.2800	.54286	.31342	6.9315	9.6285	7.67	8.71
20.00	3	4.1367	.79103	.45670	2.1716	6.1017	3.37	4.95
25.00	3	2.4000	.71042	.41016	.6352	4.1648	1.77	3.17
30.00	3	.4233	.11676	.06741	.1333	.7134	.32	.55
Total	21	7.6971	5.34193	1.16570	5.2655	10.1288	.32	16.93

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
Kadar Air	Between Groups	312.165	6	52.027	1537.993	.000
	Within Groups	1.894	56	.034		
	Total	314.059	62			
Kadar TVB	Between Groups	161745.1	6	26957.522	12985.567	.000
	Within Groups	116.254	56	2.076		
	Total	161861.4	62			
Kadar TBA	Between Groups	5.139	6	.857	264.218	.000
	Within Groups	.182	56	.003		
	Total	5.321	62			
Kadar TMA	Between Groups	9.877	6	1.646	2657.527	.000
	Within Groups	.035	56	.001		
	Total	9.912	62			
Kadar Garam	Between Groups	81.041	6	13.507	6207.768	.000
	Within Groups	.122	56	.002		
	Total	81.163	62			

ANOVA

Akt Anti Oksidan

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	558.765	6	93.127	109.017	.000
Within Groups	11.959	14	.854		
Total	570.724	20			

Post Hoc Tests
Homogeneous Subsets

Kadar Air

Duncan [a]

Hari	N	Subset for alpha = .05						
		1	2	3	4	5	6	7
.00	9	33.4378						
5.00	9		35.0789					
10.00	9			36.1100				
15.00	9				37.3089			
20.00	9					38.2033		
25.00	9						39.1556	
30.00	9							40.3744
Sig.		1.000	1.000	1.000	1.000	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 9.000.

Kadar TVB

Duncan [a]

Hari	N	Subset for alpha = .05						
		1	2	3	4	5	6	7
.00	9	47.9056						
5.00	9		73.7422					
10.00	9			92.5100				
15.00	9				128.7667			
20.00	9					152.1200		
25.00	9						175.4300	
30.00	9							196.1500
Sig.		1.000	1.000	1.000	1.000	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 9.000.

Kadar TBA

Duncan [a]

Hari	N	Subset for alpha = .05						
		1	2	3	4	5	6	7
.00	9	.1856						
5.00	9		.3133					
10.00	9			.3911				
15.00	9				.5022			
20.00	9					.5622		
25.00	9						.6689	
30.00	9							1.1344
Sig.		1.000	1.000	1.000	1.000	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 9.000.

Kadar TMA

Duncan [a]

Hari	N	Subset for alpha = .05						
		1	2	3	4	5	6	7
.00	9	.2433						
5.00	9		.3889					
10.00	9			.5267				
15.00	9				.8100			
20.00	9					1.0533		
25.00	9						1.1933	
30.00	9							1.3700
Sig.		1.000	1.000	1.000	1.000	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 9.000.

Kadar Garam

Duncan [a]

Hari	N	Subset for alpha = .05						
		1	2	3	4	5	6	7
30.00	9	14.9844						
25.00	9		15.6367					
20.00	9			16.1867				
15.00	9				16.9456			
10.00	9					17.4967		
5.00	9						17.8700	
.00	9							18.3267
Sig.		1.000	1.000	1.000	1.000	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 9.000.

Akt Anti Oksidan

Duncan [a]

Hari	N	Subset for alpha = .05						
		1	2	3	4	5	6	7
30.00	3	.4233						
25.00	3		2.4000					
20.00	3			4.1367				
15.00	3				8.2800			
10.00	3					10.3533		
5.00	3						13.1167	
.00	3							15.1700
Sig.		1.000	1.000	1.000	1.000	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

Formalin Per Hari

Descriptives

		N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
						Lower Bound	Upper Bound		
Kadar Air	.00	9	33.4622	.21159	.07053	33.2996	33.6249	33.10	33.77
	5.00	9	35.0800	.13720	.04573	34.9745	35.1855	34.89	35.26
	10.00	9	36.1467	.16294	.05431	36.0214	36.2719	35.90	36.38
	15.00	9	37.3722	.19156	.06385	37.2250	37.5195	37.15	37.79
	20.00	9	38.2156	.10418	.03473	38.1355	38.2956	38.03	38.38
	25.00	9	39.1522	.17775	.05925	39.0156	39.2889	38.91	39.43
	30.00	9	40.3922	.22242	.07414	40.2213	40.5632	40.03	40.65
	Total	63	37.1173	2.24706	.28310	36.5514	37.6832	33.10	40.65
Kadar TVB	.00	9	47.9056	1.52557	.50852	46.7329	49.0782	46.28	49.20
	5.00	9	64.7300	1.44003	.48001	63.6231	65.8369	63.77	66.67
	10.00	9	88.3222	1.53488	.51163	87.1424	89.5020	87.02	89.96
	15.00	9	109.4056	1.44180	.48060	108.2973	110.5138	107.45	110.40
	20.00	9	134.6967	1.46523	.48841	133.5704	135.8229	133.69	136.65
	25.00	9	161.0022	1.44379	.48126	159.8924	162.1120	159.98	162.95
	30.00	9	181.9078	1.50622	.50207	180.7500	183.0656	180.61	183.53
	Total	63	112.5671	46.23272	5.82477	100.9236	124.2107	46.28	183.53
Kadar TBA	.00	9	.1811	.01054	.00351	.1730	.1892	.17	.20
	5.00	9	.2978	.02635	.00878	.2775	.3180	.26	.34
	10.00	9	.3500	.01323	.00441	.3398	.3602	.33	.36
	15.00	9	.4567	.02598	.00866	.4367	.4766	.40	.48
	20.00	9	.5233	.02398	.00799	.5049	.5418	.49	.55
	25.00	9	.6222	.01986	.00662	.6070	.6375	.58	.65
	30.00	9	1.0411	.07305	.02435	.9850	1.0973	.90	1.14
	Total	63	.4960	.26457	.03333	.4294	.5627	.17	1.14
Kadar TMA	.00	9	.2200	.01500	.00500	.2085	.2315	.20	.23
	5.00	9	.3533	.02345	.00782	.3353	.3714	.32	.38
	10.00	9	.4833	.02915	.00972	.4609	.5057	.46	.52
	15.00	9	.7833	.02179	.00726	.7666	.8001	.76	.81
	20.00	9	.9600	.02598	.00866	.9400	.9800	.93	.99
	25.00	9	1.1078	.01787	.00596	1.0940	1.1215	1.08	1.13
	30.00	9	1.2933	.02179	.00726	1.2766	1.3101	1.25	1.31
	Total	63	.7430	.37729	.04753	.6480	.8380	.20	1.31
Kadar Garam	.00	9	18.3556	.05077	.01692	18.3165	18.3946	18.29	18.40
	5.00	9	17.8811	.05134	.01711	17.8416	17.9206	17.83	17.94
	10.00	9	17.5067	.05074	.01691	17.4677	17.5457	17.46	17.56
	15.00	9	16.9467	.04610	.01537	16.9112	16.9821	16.90	17.00
	20.00	9	16.2100	.05244	.01748	16.1697	16.2503	16.15	16.26
	25.00	9	15.6389	.04859	.01620	15.6015	15.6762	15.59	15.69
	30.00	9	14.9822	.04790	.01597	14.9454	15.0190	14.94	15.04
	Total	63	16.7887	1.15088	.14500	16.4989	17.0786	14.94	18.40

Descriptives

Akt Anti Oksidan

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
.00	3	5.3200	.78861	.45530	3.3610	7.2790	4.75	6.22
5.00	3	4.1067	.29023	.16756	3.3857	4.8276	3.79	4.36
10.00	3	3.1800	.55218	.31880	1.8083	4.5517	2.78	3.81
15.00	3	2.6900	.36510	.21079	1.7830	3.5970	2.33	3.06
20.00	3	1.9933	.97500	.56292	-.4287	4.4154	1.17	3.07
25.00	3	.9000	.32450	.18735	.0939	1.7061	.54	1.17
30.00	3	.2467	.30665	.17704	-.5151	1.0084	.05	.60
Total	21	2.6338	1.74631	.38108	1.8389	3.4287	.05	6.22

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
Kadar Air	Between Groups	311.305	6	51.884	1660.253	.000
	Within Groups	1.750	56	.031		
	Total	313.055	62			
Kadar TVB	Between Groups	132400.1	6	22066.682	10072.323	.000
	Within Groups	122.686	56	2.191		
	Total	132522.8	62			
Kadar TBA	Between Groups	4.276	6	.713	626.662	.000
	Within Groups	.064	56	.001		
	Total	4.340	62			
Kadar TMA	Between Groups	8.797	6	1.466	2875.275	.000
	Within Groups	.029	56	.001		
	Total	8.826	62			
Kadar Garam	Between Groups	81.982	6	13.664	5522.467	.000
	Within Groups	.139	56	.002		
	Total	82.121	62			

ANOVA

Akt Anti Oksidan

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	56.403	6	9.401	28.682	.000
Within Groups	4.589	14	.328		
Total	60.992	20			

Post Hoc Tests
Homogeneous Subsets

Kadar Air

Duncan [a]

Hari	N	Subset for alpha = .05						
		1	2	3	4	5	6	7
.00	9	33.4622						
5.00	9		35.0800					
10.00	9			36.1467				
15.00	9				37.3722			
20.00	9					38.2156		
25.00	9						39.1522	
30.00	9							40.3922
Sig.		1.000	1.000	1.000	1.000	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 9.000.

Kadar TVB

Duncan [a]

Hari	N	Subset for alpha = .05						
		1	2	3	4	5	6	7
.00	9	47.9056						
5.00	9		64.7300					
10.00	9			88.3222				
15.00	9				109.4056			
20.00	9					134.6967		
25.00	9						161.0022	
30.00	9							181.9078
Sig.		1.000	1.000	1.000	1.000	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 9.000.

Kadar TBA

Duncan [a]

Hari	N	Subset for alpha = .05						
		1	2	3	4	5	6	7
.00	9	.1811						
5.00	9		.2978					
10.00	9			.3500				
15.00	9				.4567			
20.00	9					.5233		
25.00	9						.6222	
30.00	9							1.0411
Sig.		1.000	1.000	1.000	1.000	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 9.000.

Kadar TMA

Duncan [a]

Hari	N	Subset for alpha = .05						
		1	2	3	4	5	6	7
.00	9	.2200						
5.00	9		.3533					
10.00	9			.4833				
15.00	9				.7833			
20.00	9					.9600		
25.00	9						1.1078	
30.00	9							1.2933
Sig.		1.000	1.000	1.000	1.000	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 9.000.

Kadar Garam

Duncan [a]

Hari	N	Subset for alpha = .05						
		1	2	3	4	5	6	7
30.00	9	14.9822						
25.00	9		15.6389					
20.00	9			16.2100				
15.00	9				16.9467			
10.00	9					17.5067		
5.00	9						17.8811	
.00	9							18.3556
Sig.		1.000	1.000	1.000	1.000	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 9.000.

Akt Anti Oksidan

Duncan [a]

Hari	N	Subset for alpha = .05				
		1	2	3	4	5
30.00	3	.2467				
25.00	3	.9000				
20.00	3		1.9933			
15.00	3		2.6900	2.6900		
10.00	3			3.1800	3.1800	
5.00	3				4.1067	
.00	3					5.3200
Sig.		.184	.158	.312	.067	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

Hari Ke-0

Descriptives

		N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
						Lower Bound	Upper Bound		
kadar air	kontrol	9	33,4367	,16132	,05377	33,3127	33,5607	33,18	33,72
	kunyit	9	33,4378	,22236	,07412	33,2669	33,6087	33,10	33,78
	formalin	9	33,4622	,21159	,07053	33,2996	33,6249	33,10	33,77
	Total	27	33,4456	,19272	,03709	33,3693	33,5218	33,10	33,78
kadar TVB	kontrol	9	53,0500	1,45003	,48334	51,9354	54,1646	52,07	54,99
	kunyit	9	47,9056	1,52319	,50773	46,7347	49,0764	46,29	49,20
	formalin	9	47,9056	1,52557	,50852	46,7329	49,0782	46,28	49,20
	Total	27	49,6204	2,86082	,55057	48,4887	50,7521	46,28	54,99
kadar TMA	kontrol	9	,2633	,03162	,01054	,2390	,2876	,23	,32
	kunyit	9	,2433	,02646	,00882	,2230	,2637	,20	,29
	formalin	9	,2200	,01500	,00500	,2085	,2315	,20	,23
	Total	27	,2422	,03030	,00583	,2302	,2542	,20	,32
kadar TBA	kontrol	9	,1978	,00833	,00278	,1914	,2042	,19	,21
	kunyit	9	,1856	,00726	,00242	,1800	,1911	,18	,20
	formalin	9	,1811	,01054	,00351	,1730	,1892	,17	,20
	Total	27	,1881	,01111	,00214	,1838	,1925	,17	,21
kadar garam	kontrol	9	18,3344	,04773	,01591	18,2978	18,3711	18,28	18,40
	kunyit	9	18,3267	,04183	,01394	18,2945	18,3588	18,30	18,40
	formalin	9	18,3556	,05077	,01692	18,3165	18,3946	18,29	18,40
	Total	27	18,3389	,04677	,00900	18,3204	18,3574	18,28	18,40

Descriptives

kdr_akt_antiok

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
kontrol	3	5,0000	,73614	,42501	3,1713	6,8287	4,15	5,43
kunyit	3	15,1700	1,75502	1,01326	10,8103	19,5297	13,42	16,93
formalin	3	5,3200	,78861	,45530	3,3610	7,2790	4,75	6,22
Total	9	8,4967	5,11177	1,70392	4,5674	12,4259	4,15	16,93

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
kadar air	Between Groups	,004	2	,002	,047	,954
	Within Groups	,962	24	,040		
	Total	,966	26			
kadar TVB	Between Groups	158,792	2	79,396	35,287	,000
	Within Groups	54,000	24	2,250		
	Total	212,792	26			
kadar TMA	Between Groups	,008	2	,004	6,597	,005
	Within Groups	,015	24	,001		
	Total	,024	26			
kadar TBA	Between Groups	,001	2	,001	8,619	,002
	Within Groups	,002	24	,000		
	Total	,003	26			
kadar garam	Between Groups	,004	2	,002	,913	,415
	Within Groups	,053	24	,002		
	Total	,057	26			

ANOVA

kdr_akt_antiok

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	200,554	2	100,277	70,885	,000
Within Groups	8,488	6	1,415		
Total	209,042	8			

Post Hoc Tests
Homogeneous Subsets

kadar air

Duncan[a]

perlakuan	N	Subset for alpha = .05
		1
kontrol	9	33,4367
kunyit	9	33,4378
formalin	9	33,4622
Sig.		,801

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 9,000.

kadar TVB

Duncan[a]

perlakuan	N	Subset for alpha = .05	
		1	2
kunyit	9	47,9056	
formalin	9	47,9056	
kontrol	9		53,0500
Sig.		1,000	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 9,000.

kadar TMA

Duncan[a]

perlakuan	N	Subset for alpha = .05	
		1	2
formalin	9	,2200	
kunyit	9	,2433	,2433
kontrol	9		,2633
Sig.		,062	,107

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 9,000.

kadar TBA

Duncan[a]

perlakuan	N	Subset for alpha = .05	
		1	2
formalin	9	,1811	
kunyit	9	,1856	
kontrol	9		,1978
Sig.		,296	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 9,000.

kadar garam

Duncan[a]

perlakuan	N	Subset for alpha = .05
		1
kunyit	9	18,3267
kontrol	9	18,3344
formalin	9	18,3556
Sig.		,229

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 9,000.

kdr_akt_antiok

Duncan[a]

perlakuan	N	Subset for alpha = .05	
		1	2
kontrol	3	5,0000	
formalin	3	5,3200	
kunyit	3		15,1700
Sig.		,753	1,000

Means for groups in homogeneous subsets are displayed.

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

Oneway hari ke-5

Descriptives

		N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
						Lower Bound	Upper Bound		
kadar air	kontrol	9	35,1689	,34876	,11625	34,9008	35,4370	34,77	35,76
	kunyit	9	35,0789	,15431	,05144	34,9603	35,1975	34,87	35,36
	formalin	9	35,0800	,13720	,04573	34,9745	35,1855	34,89	35,26
	Total	27	35,1093	,22889	,04405	35,0187	35,1998	34,77	35,76
kadar TVB	kontrol	9	82,4433	1,53393	,51131	81,2642	83,6224	81,13	84,09
	kunyit	9	73,7422	1,53478	,51159	72,5625	74,9220	72,44	75,36
	formalin	9	64,7300	1,44003	,48001	63,6231	65,8369	63,77	66,67
	Total	27	73,6385	7,50982	1,44527	70,6677	76,6093	63,77	84,09
kadar TMA	kontrol	9	,4700	,03000	,01000	,4469	,4931	,43	,52
	kunyit	9	,3889	,02804	,00935	,3673	,4104	,35	,43
	formalin	9	,3533	,02345	,00782	,3353	,3714	,32	,38
	Total	27	,4041	,05625	,01082	,3818	,4263	,32	,52
kadar TBA	kontrol	9	,3567	,02121	,00707	,3404	,3730	,31	,38
	kunyit	9	,3133	,02449	,00816	,2945	,3322	,26	,34
	formalin	9	,2978	,02635	,00878	,2775	,3180	,26	,34
	Total	27	,3226	,03437	,00662	,3090	,3362	,26	,38
kadar garam	kontrol	9	17,8822	,05286	,01762	17,8416	17,9229	17,81	17,94
	kunyit	9	17,8700	,04500	,01500	17,8354	17,9046	17,84	17,93
	formalin	9	17,8811	,05134	,01711	17,8416	17,9206	17,83	17,94
	Total	27	17,8778	,04822	,00928	17,8587	17,8969	17,81	17,94

Descriptives

kdr_akt_antiok

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
kontrol	3	4,5533	,52157	,30113	3,2577	5,8490	4,01	5,05
kunyit	3	13,1167	,94044	,54297	10,7805	15,4529	12,24	14,11
formalin	3	4,1067	,29023	,16756	3,3857	4,8276	3,79	4,36
Total	9	7,2589	4,43271	1,47757	3,8516	10,6662	3,79	14,11

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
kadar air	Between Groups	,048	2	,024	,438	,650
	Within Groups	1,314	24	,055		
	Total	1,362	26			
kadar TVB	Between Groups	1412,075	2	706,037	312,306	,000
	Within Groups	54,257	24	2,261		
	Total	1466,332	26			
kadar TMA	Between Groups	,064	2	,032	43,175	,000
	Within Groups	,018	24	,001		
	Total	,082	26			
kadar TBA	Between Groups	,017	2	,008	14,414	,000
	Within Groups	,014	24	,001		
	Total	,031	26			
kadar garam	Between Groups	,001	2	,000	,165	,848
	Within Groups	,060	24	,002		
	Total	,060	26			

ANOVA

kdr_akt_antiok

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	154,710	2	77,355	187,044	,000
Within Groups	2,481	6	,414		
Total	157,192	8			

Post Hoc Tests
Homogeneous Subsets

kadar air

Duncan[a]

perlakuan	N	Subset for alpha = .05
		1
kunyit	9	35,0789
formalin	9	35,0800
kontrol	9	35,1689
Sig.		,450

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 9,000.

kadar TVB

Duncan[a]

perlakuan	N	Subset for alpha = .05		
		1	2	3
formalin	9	64,7300		
kunyit	9		73,7422	
kontrol	9			82,4433
Sig.		1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 9,000.

kadar TMA

Duncan[a]

perlakuan	N	Subset for alpha = .05		
		1	2	3
formalin	9	,3533		
kunyit	9		,3889	
kontrol	9			,4700
Sig.		1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 9,000.

kadar TBA

Duncan[a]

perlakuan	N	Subset for alpha = .05	
		1	2
formalin	9	,2978	
kunyit	9	,3133	
kontrol	9		,3567
Sig.		,184	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 9,000.

kadar garam

Duncan[a]

perlakuan	N	Subset for alpha = .05
		1
kunyit	9	17,8700
formalin	9	17,8811
kontrol	9	17,8822
Sig.		,629

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 9,000.

kdr_akt_antiok

Duncan[a]

perlakuan	N	Subset for alpha = .05	
		1	2
formalin	3	4,1067	
kontrol	3	4,5533	
kunyit	3		13,1167
Sig.		,428	1,000

Means for groups in homogeneous subsets are displayed.

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

Oneway hari ke-10

Descriptives

		N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
						Lower Bound	Upper Bound		
kadar air	kontrol	9	36,2878	,40804	,13601	35,9741	36,6014	35,74	36,97
	kunyit	9	36,1100	,12679	,04226	36,0125	36,2075	35,96	36,38
	formalin	9	36,1467	,16294	,05431	36,0214	36,2719	35,90	36,38
	Total	27	36,1815	,26541	,05108	36,0765	36,2865	35,74	36,97
kadar TVB	kontrol	9	115,0978	1,44409	,48136	113,9878	116,2078	113,13	116,12
	kunyit	9	92,5100	,97130	,32377	91,7634	93,2566	89,92	92,86
	formalin	9	88,3222	1,53488	,51163	87,1424	89,5020	87,02	89,96
	Total	27	98,6433	12,05293	2,31959	93,8754	103,4113	87,02	116,12
kadar TMA	kontrol	9	,6133	,03500	,01167	,5864	,6402	,58	,67
	kunyit	9	,5267	,02000	,00667	,5113	,5420	,49	,55
	formalin	9	,4833	,02915	,00972	,4609	,5057	,46	,52
	Total	27	,5411	,06160	,01186	,5167	,5655	,46	,67
kadar TBA	kontrol	9	,4667	,01803	,00601	,4528	,4805	,44	,50
	kunyit	9	,3911	,01167	,00389	,3821	,4001	,37	,40
	formalin	9	,3500	,01323	,00441	,3398	,3602	,33	,36
	Total	27	,4026	,05119	,00985	,3823	,4228	,33	,50
kadar garam	kontrol	9	17,5233	,04873	,01624	17,4859	17,5608	17,44	17,56
	kunyit	9	17,4967	,04770	,01590	17,4600	17,5333	17,46	17,56
	formalin	9	17,5067	,05074	,01691	17,4677	17,5457	17,46	17,56
	Total	27	17,5089	,04846	,00933	17,4897	17,5281	17,44	17,56

Descriptives

kdr_akt_antiok

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
kontrol	3	3,1633	,92738	,53542	,8596	5,4671	2,20	4,05
kunyit	3	10,3533	,75923	,43834	8,4673	12,2394	9,91	11,23
formalin	3	3,1800	,55218	,31880	1,8083	4,5517	2,78	3,81
Total	9	5,5656	3,65096	1,21699	2,7592	8,3719	2,20	11,23

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
kadar air	Between Groups	,159	2	,079	1,138	,337
	Within Groups	1,673	24	,070		
	Total	1,832	26			
kadar TVB	Between Groups	3734,027	2	1867,013	1040,184	,000
	Within Groups	43,077	24	1,795		
	Total	3777,104	26			
kadar TMA	Between Groups	,079	2	,039	47,798	,000
	Within Groups	,020	24	,001		
	Total	,099	26			
kadar TBA	Between Groups	,063	2	,032	148,629	,000
	Within Groups	,005	24	,000		
	Total	,068	26			
kadar garam	Between Groups	,003	2	,002	,678	,517
	Within Groups	,058	24	,002		
	Total	,061	26			

ANOVA

kdr_akt_antiok

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	103,153	2	51,577	88,855	,000
Within Groups	3,483	6	,580		
Total	106,636	8			

Post Hoc Tests
Homogeneous Subsets

kadar air

Duncan[a]

perlakuan	N	Subset for alpha = .05
		1
kunyit	9	36,1100
formalin	9	36,1467
kontrol	9	36,2878
Sig.		,189

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 9,000.

kadar TVB

Duncan[a]

perlakuan	N	Subset for alpha = .05		
		1	2	3
formalin	9	88,3222		
kunyit	9		92,5100	
kontrol	9			115,0978
Sig.		1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 9,000.

kadar TMA

Duncan[a]

perlakuan	N	Subset for alpha = .05		
		1	2	3
formalin	9	,4833		
kunyit	9		,5267	
kontrol	9			,6133
Sig.		1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 9,000.

kadar TBA

Duncan[a]

perlakuan	N	Subset for alpha = .05		
		1	2	3
formalin	9	,3500		
kunyit	9		,3911	
kontrol	9			,4667
Sig.		1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 9,000.

kadar garam

Duncan[a]

perlakuan	N	Subset for alpha = .05
		1
kunyit	9	17,4967
formalin	9	17,5067
kontrol	9	17,5233
Sig.		,287

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 9,000.

kdr_akt_antiok

Duncan[a]

perlakuan	N	Subset for alpha = .05	
		1	2
kontrol	3	3,1633	
formalin	3	3,1800	
kunyit	3		10,3533
Sig.		,979	1,000

Means for groups in homogeneous subsets are displayed.

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

Oneway hari ke-15

Descriptives

		N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
						Lower Bound	Upper Bound		
kadar air	kontrol	9	37,5867	,31898	,10633	37,3415	37,8319	37,18	37,98
	kunyit	9	37,3089	,17489	,05830	37,1745	37,4433	37,06	37,58
	formalin	9	37,3722	,19156	,06385	37,2250	37,5195	37,15	37,79
	Total	27	37,4226	,25823	,04970	37,3204	37,5247	37,06	37,98
kadar TVB	kontrol	9	143,9711	1,50757	,50252	142,8123	145,1299	142,36	145,32
	kunyit	9	128,7667	1,45521	,48507	127,6481	129,8852	127,78	130,74
	formalin	9	109,4056	1,44180	,48060	108,2973	110,5138	107,45	110,40
	Total	27	127,3811	14,48364	2,78738	121,6516	133,1106	107,45	145,32
kadar TMA	kontrol	9	,9300	,04243	,01414	,8974	,9626	,87	,99
	kunyit	9	,8100	,02121	,00707	,7937	,8263	,78	,84
	formalin	9	,7833	,02179	,00726	,7666	,8001	,76	,81
	Total	27	,8411	,07116	,01370	,8130	,8693	,76	,99
kadar TBA	kontrol	9	,6189	,02667	,00889	,5984	,6394	,58	,65
	kunyit	9	,5022	,01787	,00596	,4885	,5160	,48	,53
	formalin	9	,4567	,02598	,00866	,4367	,4766	,40	,48
	Total	27	,5259	,07329	,01410	,4969	,5549	,40	,65
kadar garam	kontrol	9	16,9389	,05600	,01867	16,8958	16,9819	16,86	17,00
	kunyit	9	16,9456	,04720	,01573	16,9093	16,9818	16,90	17,00
	formalin	9	16,9467	,04610	,01537	16,9112	16,9821	16,90	17,00
	Total	27	16,9437	,04813	,00926	16,9247	16,9627	16,86	17,00

Descriptives

kdr_akt_antiok

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
kontrol	3	2,1633	,63736	,36798	,5800	3,7466	1,56	2,83
kunyit	3	8,2800	,54286	,31342	6,9315	9,6285	7,67	8,71
formalin	3	2,6900	,36510	,21079	1,7830	3,5970	2,33	3,06
Total	9	4,3778	2,97085	,99028	2,0942	6,6614	1,56	8,71

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
kadar air	Between Groups	,381	2	,191	3,385	,051
	Within Groups	1,352	24	,056		
	Total	1,734	26			
kadar TVB	Between Groups	5402,416	2	2701,208	1252,649	,000
	Within Groups	51,754	24	2,156		
	Total	5454,170	26			
kadar TMA	Between Groups	,110	2	,055	60,477	,000
	Within Groups	,022	24	,001		
	Total	,132	26			
kadar TBA	Between Groups	,126	2	,063	110,821	,000
	Within Groups	,014	24	,001		
	Total	,140	26			
kadar garam	Between Groups	,000	2	,000	,064	,938
	Within Groups	,060	24	,002		
	Total	,060	26			

ANOVA

kdr_akt_antiok

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	68,939	2	34,470	123,956	,000
Within Groups	1,668	6	,278		
Total	70,608	8			

Post Hoc Tests
Homogeneous Subsets

kadar air

Duncan[a]

perlakuan	N	Subset for alpha = .05	
		1	2
kunyit	9	37,3089	
formalin	9	37,3722	37,3722
kontrol	9		37,5867
Sig.		,577	,067

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 9,000.

kadar TVB

Duncan[a]

perlakuan	N	Subset for alpha = .05		
		1	2	3
formalin	9	109,4056		
kunyit	9		128,7667	
kontrol	9			143,9711
Sig.		1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 9,000.

kadar TMA

Duncan[a]

perlakuan	N	Subset for alpha = .05	
		1	2
formalin	9	,7833	
kunyit	9	,8100	
kontrol	9		,9300
Sig.		,073	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 9,000.

kadar TBA

Duncan[a]

perlakuan	N	Subset for alpha = .05		
		1	2	3
formalin	9	,4567		
kunyit	9		,5022	
kontrol	9			,6189
Sig.		1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 9,000.

kadar garam

Duncan[a]

perlakuan	N	Subset for alpha = .05
		1
kontrol	9	16,9389
kunyit	9	16,9456
formalin	9	16,9467
Sig.		,759

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 9,000.

kdr_akt_antiok

Duncan[a]

perlakuan	N	Subset for alpha = .05	
		1	2
kontrol	3	2,1633	
formalin	3	2,6900	
kunyit	3		8,2800
Sig.		,267	1,000

Means for groups in homogeneous subsets are displayed.

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

Oneway hari ke-20

Descriptives

		N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
						Lower Bound	Upper Bound		
kadar air	kontrol	9	38,3478	,27303	,09101	38,1379	38,5576	38,10	38,85
	kunyit	9	38,2033	,19698	,06566	38,0519	38,3547	37,95	38,57
	formalin	9	38,2156	,10418	,03473	38,1355	38,2956	38,03	38,38
	Total	27	38,2556	,20653	,03975	38,1739	38,3373	37,95	38,85
kadar TVB	kontrol	9	161,5222	1,53257	,51086	160,3442	162,7003	159,85	162,88
	kunyit	9	152,1200	1,45531	,48510	151,0014	153,2386	151,13	154,10
	formalin	9	134,6967	1,46523	,48841	133,5704	135,8229	133,69	136,65
	Total	27	149,4463	11,41467	2,19675	144,9308	153,9618	133,69	162,88
kadar TMA	kontrol	9	1,1244	,02404	,00801	1,1060	1,1429	1,10	1,16
	kunyit	9	1,0533	,02345	,00782	1,0353	1,0714	1,02	1,08
	formalin	9	,9600	,02598	,00866	,9400	,9800	,93	,99
	Total	27	1,0459	,07255	,01396	1,0172	1,0746	,93	1,16
kadar TBA	kontrol	9	,6489	,01167	,00389	,6399	,6579	,63	,67
	kunyit	9	,5622	,01856	,00619	,5480	,5765	,53	,59
	formalin	9	,5233	,02398	,00799	,5049	,5418	,49	,55
	Total	27	,5781	,05643	,01086	,5558	,6005	,49	,67
kadar garam	kontrol	9	16,1978	,05263	,01754	16,1573	16,2382	16,14	16,26
	kunyit	9	16,1867	,04528	,01509	16,1519	16,2215	16,15	16,25
	formalin	9	16,2100	,05244	,01748	16,1697	16,2503	16,15	16,26
	Total	27	16,1981	,04923	,00947	16,1787	16,2176	16,14	16,26

Descriptives

kdr_akt_antiok

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
kontrol	3	1,2500	,65207	,37647	-,3698	2,8698	,57	1,87
kunyit	3	4,1367	,79103	,45670	2,1716	6,1017	3,37	4,95
formalin	3	1,9933	,97500	,56292	-,4287	4,4154	1,17	3,07
Total	9	2,4600	1,47828	,49276	1,3237	3,5963	,57	4,95

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
kadar air	Between Groups	,115	2	,058	1,395	,267
	Within Groups	,994	24	,041		
	Total	1,109	26			
kadar TVB	Between Groups	3334,754	2	1667,377	756,341	,000
	Within Groups	52,909	24	2,205		
	Total	3387,663	26			
kadar TMA	Between Groups	,122	2	,061	101,867	,000
	Within Groups	,014	24	,001		
	Total	,137	26			
kadar TBA	Between Groups	,074	2	,037	105,674	,000
	Within Groups	,008	24	,000		
	Total	,083	26			
kadar garam	Between Groups	,002	2	,001	,486	,621
	Within Groups	,061	24	,003		
	Total	,063	26			

ANOVA

kdr_akt_antiok

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	13,479	2	6,740	10,102	,012
Within Groups	4,003	6	,667		
Total	17,482	8			

Post Hoc Tests
Homogeneous Subsets

kadar air

Duncan[a]

perlakuan	N	Subset for alpha = .05
		1
kunyit	9	38,2033
formalin	9	38,2156
kontrol	9	38,3478
Sig.		,167

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 9,000.

kadar TVB

Duncan[a]

perlakuan	N	Subset for alpha = .05		
		1	2	3
formalin	9	134,6967		
kunyit	9		152,1200	
kontrol	9			161,5222
Sig.		1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 9,000.

kadar TMA

Duncan[a]

perlakuan	N	Subset for alpha = .05		
		1	2	3
formalin	9	,9600		
kunyit	9		1,0533	
kontrol	9			1,1244
Sig.		1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 9,000.

kadar TBA

Duncan[a]

perlakuan	N	Subset for alpha = .05		
		1	2	3
formalin	9	,5233		
kunyit	9		,5622	
kontrol	9			,6489
Sig.		1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 9,000.

kadar garam

Duncan[a]

perlakuan	N	Subset for alpha = .05
		1
kunyit	9	16,1867
kontrol	9	16,1978
formalin	9	16,2100
Sig.		,362

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 9,000.

kdr_akt_antiok

Duncan[a]

perlakuan	N	Subset for alpha = .05	
		1	2
kontrol	3	1,2500	
formalin	3	1,9933	
kunyit	3		4,1367
Sig.		,308	1,000

Means for groups in homogeneous subsets are displayed.

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

Oneway hari ke-25

Descriptives

		N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
						Lower Bound	Upper Bound		
kadar air	kontrol	9	39,2811	,12303	,04101	39,1865	39,3757	39,15	39,53
	kunyit	9	39,1556	,25190	,08397	38,9619	39,3492	38,81	39,43
	formalin	9	39,1522	,17775	,05925	39,0156	39,2889	38,91	39,43
	Total	27	39,1963	,19401	,03734	39,1195	39,2730	38,81	39,53
kadar TVB	kontrol	9	194,6356	,97369	,32456	193,8871	195,3840	192,04	195,03
	kunyit	9	175,4300	1,60002	,53334	174,2001	176,6599	173,38	177,56
	formalin	9	161,0022	1,44379	,48126	159,8924	162,1120	159,98	162,95
	Total	27	177,0226	14,10045	2,71363	171,4446	182,6005	159,98	195,03
kadar TMA	kontrol	9	1,3167	,02500	,00833	1,2974	1,3359	1,28	1,34
	kunyit	9	1,1933	,02345	,00782	1,1753	1,2114	1,16	1,22
	formalin	9	1,1078	,01787	,00596	1,0940	1,1215	1,08	1,13
	Total	27	1,2059	,08997	,01731	1,1703	1,2415	1,08	1,34
kadar TBA	kontrol	9	,7944	,05175	,01725	,7547	,8342	,71	,85
	kunyit	9	,6689	,02619	,00873	,6488	,6890	,63	,70
	formalin	9	,6222	,01986	,00662	,6070	,6375	,58	,65
	Total	27	,6952	,08154	,01569	,6629	,7274	,58	,85
kadar garam	kontrol	9	15,6378	,04969	,01656	15,5996	15,6760	15,59	15,69
	kunyit	9	15,6367	,04848	,01616	15,5994	15,6739	15,59	15,69
	formalin	9	15,6389	,04859	,01620	15,6015	15,6762	15,59	15,69
	Total	27	15,6378	,04701	,00905	15,6192	15,6564	15,59	15,69

Descriptives

kdr_akt_antiok

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
kontrol	3	,5333	,19858	,11465	,0400	1,0266	,31	,69
kunyit	3	2,4000	,71042	,41016	,6352	4,1648	1,77	3,17
formalin	3	,9000	,32450	,18735	,0939	1,7061	,54	1,17
Total	9	1,2778	,94656	,31552	,5502	2,0054	,31	3,17

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
kadar air	Between Groups	,097	2	,049	1,323	,285
	Within Groups	,881	24	,037		
	Total	,979	26			
kadar TVB	Between Groups	5124,646	2	2562,323	1374,478	,000
	Within Groups	44,741	24	1,864		
	Total	5169,387	26			
kadar TMA	Between Groups	,198	2	,099	199,234	,000
	Within Groups	,012	24	,000		
	Total	,210	26			
kadar TBA	Between Groups	,143	2	,071	56,996	,000
	Within Groups	,030	24	,001		
	Total	,173	26			
kadar garam	Between Groups	,000	2	,000	,005	,995
	Within Groups	,057	24	,002		
	Total	,057	26			

ANOVA

kdr_akt_antiok

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	5,869	2	2,934	13,555	,006
Within Groups	1,299	6	,216		
Total	7,168	8			

Post Hoc Tests
Homogeneous Subsets

kadar air

Duncan[a]

perlakuan	N	Subset for alpha = .05
		1
formalin	9	39,1522
kunyit	9	39,1556
kontrol	9	39,2811
Sig.		,190

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 9,000.

kadar TVB

Duncan[a]

perlakuan	N	Subset for alpha = .05		
		1	2	3
formalin	9	161,0022		
kunyit	9		175,4300	
kontrol	9			194,6356
Sig.		1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 9,000.

kadar TMA

Duncan[a]

perlakuan	N	Subset for alpha = .05		
		1	2	3
formalin	9	1,1078		
kunyit	9		1,1933	
kontrol	9			1,3167
Sig.		1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 9,000.

kadar TBA

Duncan[a]

perlakuan	N	Subset for alpha = .05		
		1	2	3
formalin	9	,6222		
kunyit	9		,6689	
kontrol	9			,7944
Sig.		1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 9,000.

kadar garam

Duncan[a]

perlakuan	N	Subset for alpha = .05
		1
kunyit	9	15,6367
kontrol	9	15,6378
formalin	9	15,6389
Sig.		,929

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 9,000.

kdr_akt_antiok

Duncan[a]

perlakuan	N	Subset for alpha = .05	
		1	2
kontrol	3	,5333	
formalin	3	,9000	
kunyit	3		2,4000
Sig.		,372	1,000

Means for groups in homogeneous subsets are displayed.

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

Oneway hari ke-30

Descriptives

		N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
						Lower Bound	Upper Bound		
kadar air	kontrol	9	40,6589	,15512	,05171	40,5397	40,7781	40,45	40,85
	kunyit	9	40,3744	,12095	,04032	40,2815	40,4674	40,23	40,55
	formalin	9	40,3922	,22242	,07414	40,2213	40,5632	40,03	40,65
	Total	27	40,4752	,21143	,04069	40,3915	40,5588	40,03	40,85
kadar TVB	kontrol	9	217,2367	1,58114	,52705	216,0213	218,4520	215,57	218,57
	kunyit	9	196,1500	1,45500	,48500	195,0316	197,2684	195,18	198,09
	formalin	9	181,9078	1,50622	,50207	180,7500	183,0656	180,61	183,53
	Total	27	198,4315	14,86082	2,85997	192,5527	204,3102	180,61	218,57
kadar TMA	kontrol	9	1,5967	,03162	,01054	1,5724	1,6210	1,54	1,63
	kunyit	9	1,3700	,03000	,01000	1,3469	1,3931	1,31	1,40
	formalin	9	1,2933	,02179	,00726	1,2766	1,3101	1,25	1,31
	Total	27	1,4200	,13399	,02579	1,3670	1,4730	1,25	1,63
kadar TBA	kontrol	9	1,3600	,06557	,02186	1,3096	1,4104	1,28	1,47
	kunyit	9	1,1344	,14336	,04779	1,0242	1,2446	,87	1,32
	formalin	9	1,0411	,07305	,02435	,9850	1,0973	,90	1,14
	Total	27	1,1785	,16703	,03214	1,1124	1,2446	,87	1,47
kadar garam	kontrol	9	14,9833	,04950	,01650	14,9453	15,0214	14,94	15,04
	kunyit	9	14,9844	,05053	,01684	14,9456	15,0233	14,94	15,04
	formalin	9	14,9822	,04790	,01597	14,9454	15,0190	14,94	15,04
	Total	27	14,9833	,04739	,00912	14,9646	15,0021	14,94	15,04

Descriptives

kdr_akt_antiok

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
kontrol	3	,1133	,02309	,01333	,0560	,1707	,10	,14
kunyit	3	,4233	,11676	,06741	,1333	,7134	,32	,55
formalin	3	,2467	,30665	,17704	-,5151	1,0084	,05	,60
Total	9	,2611	,21257	,07086	,0977	,4245	,05	,60

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
kadar air	Between Groups	,457	2	,229	7,776	,002
	Within Groups	,705	24	,029		
	Total	1,162	26			
kadar TVB	Between Groups	5686,856	2	2843,428	1238,837	,000
	Within Groups	55,086	24	2,295		
	Total	5741,942	26			
kadar TMA	Between Groups	,448	2	,224	282,821	,000
	Within Groups	,019	24	,001		
	Total	,467	26			
kadar TBA	Between Groups	,484	2	,242	24,040	,000
	Within Groups	,242	24	,010		
	Total	,725	26			
kadar garam	Between Groups	,000	2	,000	,005	,995
	Within Groups	,058	24	,002		
	Total	,058	26			

ANOVA

kdr_akt_antiok

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	,145	2	,073	2,011	,215
Within Groups	,216	6	,036		
Total	,361	8			

Post Hoc Tests
Homogeneous Subsets

kadar air

Duncan[a]

perlakuan	N	Subset for alpha = .05	
		1	2
kunyit	9	40,3744	
formalin	9	40,3922	
kontrol	9		40,6589
Sig.		,828	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 9,000.

kadar TVB

Duncan[a]

perlakuan	N	Subset for alpha = .05		
		1	2	3
formalin	9	181,9078		
kunyit	9		196,1500	
kontrol	9			217,2367
Sig.		1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 9,000.

kadar TMA

Duncan[a]

perlakuan	N	Subset for alpha = .05		
		1	2	3
formalin	9	1,2933		
kunyit	9		1,3700	
kontrol	9			1,5967
Sig.		1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 9,000.

kadar TBA

Duncan[a]

perlakuan	N	Subset for alpha = .05	
		1	2
formalin	9	1,0411	
kunyit	9	1,1344	
kontrol	9		1,3600
Sig.		,060	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 9,000.

kadar garam

Duncan[a]

perlakuan	N	Subset for alpha = .05
		1
formalin	9	14,9822
kontrol	9	14,9833
kunyit	9	14,9844
Sig.		,929

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 9,000.

kdr_akt_antiok

Duncan[a]

perlakuan	N	Subset for alpha = .05
		1
kontrol	3	,1133
formalin	3	,2467
kunyit	3	,4233
Sig.		,102

Means for groups in homogeneous subsets are displayed.

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

Konsentrasi Formalin

Descriptives

kadar formalin

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
,00	3	17,0100	,07937	,04583	16,8128	17,2072	16,95	17,10
5,00	3	13,2267	,19218	,11096	12,7493	13,7041	13,02	13,40
10,00	3	10,1933	,14012	,08090	9,8453	10,5414	10,05	10,33
15,00	3	7,4867	,06351	,03667	7,3289	7,6444	7,45	7,56
20,00	3	5,3167	,12220	,07055	5,0131	5,6202	5,21	5,45
25,00	3	3,0733	,08145	,04702	2,8710	3,2757	2,98	3,13
30,00	3	,5733	,29905	,17266	-,1696	1,3162	,25	,84
Total	21	8,1257	5,48007	1,19585	5,6312	10,6202	,25	17,10

ANOVA

kadar formalin

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	600,268	6	100,045	3936,554	,000
Within Groups	,356	14	,025		
Total	600,624	20			

Post Hoc Tests
Homogeneous Subsets

kadar formalin

Duncan[a]

hari	N	Subset for alpha = .05						
		1	2	3	4	5	6	7
30,00	3	,5733						
25,00	3		3,0733					
20,00	3			5,3167				
15,00	3				7,4867			
10,00	3					10,1933		
5,00	3						13,2267	
,00	3							17,0100
Sig.		1,000	1,000	1,000	1,000	1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

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

Lampiran 3. Penghitungan Konversi Umur Simpan Suhu Ruang Terhadap Suhu ASLT

$$Q^{\delta T/10} = \frac{ts(T_1)}{ts(T_2)}$$

Keterangan : $Q^{\delta T/10}$ = faktor percepatan
$ts\ (T_1)$ = masa simpan suhu T ^oC
$ts\ (T_2)$ = masa simpan suhu T + 10 ^oC

$Q^{\delta T/10} = 2$

$T_1 = 25\ ^oC$

$T_2 = 40\ ^oC$

$\delta T = T_2 - T_1$
$= 40 - 25$
$= 15\ ^oC$

$$ts(T_2) = \frac{ts(T_1)}{Q^{\delta T/10}}$$
$$= \frac{90}{2^{1,5}}$$
$= 30$ hari

Konversi Lama Penyimpanan ASLT terhadap Lama Penyimpanan Suhu Ruang

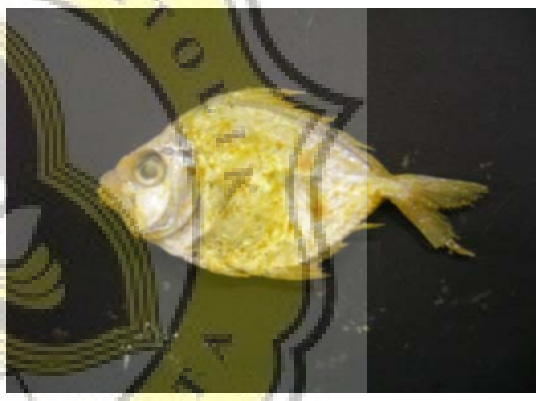
	Q_{10}	
Titik ke-	T = 40 ^oC	T = 25 ^oC
1	0	0
2	5	15
3	10	30
4	15	45
5	20	60
6	25	75
7	30	90

Lampiran 4. Gambar Ikan Asin Kering Kontrol, Kunyit, dan Formalin Pada Hari Ke-0 dan Ke-30

Ikan Asin Kering Kontrol hari ke-0

Ikan Asin Kering Kontrol hari ke-30

Ikan Asin Kering Kunyit hari ke-0



Ikan Asin Kering Kunyit hari ke-30

Ikan Asin Kering Berformalin hari ke-0

Ikan Asin Kering Berformalin hari ke-30

Lampiran 5. Kurva Standar Formalin dan Perhitungannya

Analysis of Variance:

	DF	Sum of Squares	Mean Square
Regression	1	.27174821	.27174821
Residuals	4	.00210977	.00052744

F = 515.21928 Signif F = .0000

---------- Variables in the Equation ----------

Variable	B	SE B	Beta	T	Sig T
X	.062893	.002771	.996141	22.698	.0000
(Constant)	-.015167	.013060		-1.161	.3101

Rumus Kurva Standar Formalin adalah :

$Y = 0{,}063X - 0{,}015$

Hasil Pengukuran Absorbansi Formalin

Hari ke-	y
0	0,2293
5	0,1817
10	0,1434
15	0,1094
20	0,0820
25	0,0537
30	0,0223

- Kandungan Formalin Hari ke-0

$$x = \frac{[(0{,}2293 + 0{,}015) \times 25]}{0{,}063 \times 5}$$

$$= 17{,}01$$

- Kandungan Formalin Hari ke-5

$$x = \frac{[(0{,}1817 + 0{,}015) \times 25]}{0{,}063 \times 5}$$

$$= 13{,}23$$

- Kandungan Formalin Hari ke-10

$$x = \frac{[(0{,}1434 + 0{,}015) \times 25]}{0{,}063 \times 5}$$

$$= 10{,}19$$

- Kandungan Formalin Hari ke-15

$$x = \frac{[(0{,}1094 + 0{,}015) \times 25]}{0{,}063 \times 5}$$

$$= 7{,}49$$

- Kandungan Formalin Hari ke-20

$$x = \frac{[(0{,}0820 + 0{,}015) \times 25]}{0{,}063 \times 5}$$

$$= 5{,}31$$

- Kandungan Formalin Hari ke-25

$$x = \frac{[(0{,}0537 + 0{,}015) \times 25]}{0{,}063 \times 5}$$

$$= 3{,}07$$

- Kandungan Formalin Hari ke-0

$$x = \frac{[(0{,}0223 + 0{,}015) \times 25]}{0{,}063 \times 5}$$

$$= 0{,}58$$

Lampiran 6. Perhitungan Penurunan Kandungan Formalin (%)

- $\% = \frac{(17{,}01 - 13{,}23)}{17{,}01} \times 100\%$

  $= 22\%$

- $\% = \frac{(17{,}01 - 10{,}19)}{17{,}01} \times 100\%$

  $= 40\%$

- $\% = \frac{(17{,}01 - 7{,}49)}{17{,}01} \times 100\%$

  $= 56\%$

- $\% = \frac{(17{,}01 - 5{,}31)}{17{,}01} \times 100\%$

  $= 69\%$

- $\% = \frac{(17{,}01 - 3{,}07)}{17{,}01} \times 100\%$

  $= 82\%$

- $\% = \frac{(17{,}01 - 0{,}58)}{17{,}01} \times 100\%$

  $= 97\%$