

8. LAMPIRAN

8.1. Lampiran 1. Hasil Identifikasi Mikroorganisme di Balai Laboratorium Kesehatan



PEMERINTAH PROVINSI JAWA TENGAH
DINAS KESEHATAN
BALAI LABORATORIUM KESEHATAN
Jl. Soekarno Hatta No.185 Semarang 50196 Telp. (024) 6710662 Fax. 6715241

Semarang, 13 September 2007.

Nomor : 443-5/5650/2-3
Perihal : Hasil pemeriksaan makanan

Yang terhormat
Hendra Wibowo
Jl. Menur No.27
Kudus

Disampaikan dengan hormat hasil pemeriksaan laboratorium kami sebagai berikut :

Nomor Kode : 227/ A - C/B-MM/ 16/9/2007.
Pengirim : Hendra Wibowo
B a h a n : Getuk
Jam Sampling : Pk. 11.00 (Siang)
Lokasi sampling : Jl. Ligu Tengah 1083 Semarang
Jumlah volume sampling : 500 gram
Penyimpanan sampel : ASLT Box 30⁰ C

Diperiksa terhadap	Hasil (A)	Hasil (B)	Hasil (C)
<i>Staphylococcus aureus</i>	: Positip	Positip	Positip
<i>Streptococcus</i>	: Alpha <i>Streptococcus</i> (+)	Alpha <i>Streptococcus</i> (+)	Alpha <i>Streptococcus</i> (+)
<i>E.coli</i>	: Negatip	Negatip	Negatip
<i>V.cholerae</i>	: Negatip	Negatip	Negatip
<i>Bacillus sp</i>	: Negatip	<i>Bacillus</i> <i>pantothenicus</i> (+)	Negatip
<i>Pseudomonas</i>	: Negatip	Negatip	Negatip
<i>Yeast cell</i>	: Negatip	Positip / <i>Candida sp</i> (+)	Negatip

Demikian hasil pemeriksaan kami untuk dapat dipergunakan seperlunya.

An.KEPAKA BALAI LABORATORIUM KESEHATAN
Kepala Seksi Mikrobiologi



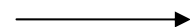
Tembusan :

1.Pertinggal

8.2. Lampiran 2. Penghitungan Jumlah Koloni selama Waktu Penyimpanan

Tabel Penghitungan Jumlah Koloni selama Waktu Penyimpanan

Kode	Jumlah Koloni pada pengenceran:					
	10^{-1}	10^{-2}	10^{-3}	10^{-4}	10^{-5}	10^{-6}
1 A X	163	22	6	2	-	Spreader
1 A Y	191	19	10	1	-	2
1 A Z	152	16	4	5	Spreader	1
1 B X	85	31	-	25	29	-
1 B Y	130	3	1	4	19	Spreader
1 B Z	86	Spreader	-	10	7	-
1 C X	Spreader	116	31	Spreader	14	Spreader
1 C Y	176	56	80	Spreader	64	86
1 C Z	83	55	Spreader	Spreader	50	45
1 D X	132	Spreader	64	Spreader	5	2
1 D Y	76	122	47	Spreader	94	57
1 D Z	106	153	109	Spreader	28	56
1 E X	Spreader	Spreader	151	83	32	26
1 E Y	Spreader	Spreader	117	74	67	3
1 E Z	Spreader	Spreader	124	76	34	-
1 F X	Spreader	Spreader	126	151	57	5
1 F Y	Spreader	Spreader	115	76	12	52
1 F Z	Spreader	Spreader	171	45	65	Spreader
1 G X	Spreader	Spreader	183	199	152	19
1 G Y	Spreader	Spreader	149	232	166	59
1 G Z	Spreader	Spreader	82	Spreader	71	1
2 A X	163	22	6	2	-	Spreader
2 A Y	191	19	10	1	-	2
2 A Z	152	16	4	5	56	1
2 B X	43	1	-	42	-	11
2 B Y	31	-	-	-	1	Spreader
2 B Z	119	-	-	-	-	4
2 C X	29	2	Spreader	Spreader	Spreader	-
2 C Y	33	11	29	14	2	-
2 C Z	20	-	-	5	Spreader	14
2 D X	15	4	Spreader	Spreader	Spreader	Spreader
2 D Y	13	-	Spreader	Spreader	Spreader	-
2 D Z	34	-	-	Spreader	Spreader	7
2 E X	21	2	Spreader	2	-	-
2 E Y	27	1	Spreader	2	-	-
2 E Z	26	1	2	-	1	-
2 F X	8	Spreader	13	-	Spreader	Spreader
2 F Y	Spreader	Spreader	Spreader	2	Spreader	Spreader
2 F Z	44	Spreader	Spreader	1	Spreader	Spreader
2 G X	37	4	2	2	1	-



Lanjutan Lampiran 2. Penghitungan Jumlah Koloni selama Waktu Penyimpanan

2 G Y	30	28	-	2	-	-
2 G Z	6	-	3	-	2	-

Keterangan:

1 = Suhu Ruang (30 °C)

2 = Suhu Refrigerator (5 °C)

A, B, C, dst s/d G = Jam ke 0, 6, 12, dst

X = Ulangan 1

Y = Ulangan 2

Z = Ulangan 3



8.3. Lampiran 3. Pengamatan Perubahan Kadar Air *Gethuk* selama Waktu Penyimpanan

Tabel Pengamatan Perubahan Kadar Air *Gethuk* selama Waktu Penyimpanan

Kode	Berat Cawan Kosong (gram)	Berat Cawan + Sampel (gram)	Berat Cawan + Sampel Kering (gram)	Berat Sampel Awal (gram)	Berat Akhir (gram)	Kadar Air (%)
1 A X	20.695	26.126	23.414	5.431	2.719	49.93556
1 A Y	22.848	27.017	24.935	4.169	2.087	49.94003
1 A Z	18.200	24.253	21.182	6.053	2.982	50.73517
1 B X	23.176	27.475	25.305	4.299	2.129	50.47686
1 B Y	24.261	31.106	27.629	6.845	3.368	50.7962
1 B Z	23.901	30.172	27.027	6.271	3.126	50.15149
1 C X	19.419	24.710	22.037	5.291	2.618	50.51975
1 C Y	21.764	26.797	24.253	5.033	2.489	50.54639
1 C Z	23.307	28.476	25.890	5.169	2.583	50.02902
1 D X	22.305	28.252	25.302	5.947	2.997	49.60484
1 D Y	19.035	26.749	22.878	7.714	3.843	50.18149
1 D Z	22.331	29.704	26.017	7.373	3.686	50.00678
1 E X	7.541	12.401	10.000	4.86	2.459	49.40329
1 E Y	10.010	16.923	13.453	6.913	3.443	50.19528
1 E Z	18.408	27.154	22.865	8.746	4.457	49.03956
1 F X	18.992	25.175	22.079	6.183	3.087	50.07278
1 F Y	21.535	26.260	23.900	4.725	2.365	49.94709
1 F Z	20.950	27.586	24.367	6.636	3.417	48.50814
1 G X	20.254	27.714	23.954	7.46	3.7	50.40214
1 G Y	16.796	25.161	20.960	8.365	4.164	50.22116
1 G Z	20.873	27.698	24.251	6.825	3.378	50.50549
2 A X	20.695	26.126	23.414	5.431	2.719	49.93556
2 A Y	22.848	27.017	24.935	4.169	2.087	49.94003



Lanjutan Lampiran 3. Pengamatan Perubahan Kadar Air *Gethuk* selama Waktu Penyimpanan

2 A Z	18.200	24.253	21.182	6.053	2.982	50.73517
2 B X	9.561	14.523	12.009	4.962	2.448	50.66505
2 B Y	22.215	28.636	25.443	6.421	3.228	49.72746
2 B Z	24.472	30.192	27.373	5.72	2.901	49.28322
2 C X	21.678	27.126	24.407	5.448	2.729	49.90822
2 C Y	21.088	26.597	23.914	5.509	2.826	48.70212
2 C Z	20.403	26.89	23.69	6.487	3.287	49.32943
2 D X	17.678	23.329	20.561	5.651	2.883	48.98248
2 D Y	9.508	12.919	11.221	3.411	1.713	49.78012
2 D Z	22.908	28.239	25.586	5.331	2.678	49.76552
2 E X	21.018	26.547	23.756	5.529	2.738	50.47929
2 E Y	22.707	27.447	24.551	4.74	1.844	61.09705
2 E Z	22.087	27.003	25.153	4.916	3.066	37.63222
2 F X	20.817	27.157	23.988	6.34	3.171	49.98423
2 F Y	22.798	29.363	26.079	6.565	3.281	50.02285
2 F Z	17.921	25.308	21.617	7.387	3.696	49.96616
2 G X	20.888	26.773	23.775	5.885	2.887	50.94308
2 G Y	10.589	17.868	14.197	7.279	3.608	50.43275
2 G Z	19.896	27.18	23.561	7.284	3.665	49.68424

Keterangan:

1 = Suhu Ruang (30 °C)

2 = Suhu Refrigerator (5 °C)

A, B, C, dst s/d G = Jam ke 0, 6, 12, dst

X = Ulangan 1

Y = Ulangan 2

Z = Ulangan 3

8.4. Lampiran 4. Pengamatan Perubahan A_w dan pH Gethuk selama Waktu Penyimpanan

Tabel Pengamatan Perubahan A_w dan pH Gethuk selama Waktu Penyimpanan

Kode	A_w	pH	Kode	A_w	pH
1 A X	0.986	6.50	2 A X	0.986	6.50
1 A Y	0.995	6.43	2 A Y	0.995	6.43
1 A Z	0.964	6.43	2 A Z	0.964	6.43
1 B X	0.988	6.50	2 B X	0.962	6.48
1 B Y	0.989	6.50	2 B Y	0.961	6.48
1 B Z	0.970	6.48	2 B Z	0.970	6.48
1 C X	1.002	6.40	2 C X	0.937	6.51
1 C Y	0.966	6.41	2 C Y	0.923	6.43
1 C Z	0.983	6.45	2 C Z	0.918	6.46
1 D X	0.990	6.42	2 D X	0.934	6.51
1 D Y	0.965	6.42	2 D Y	0.941	6.54
1 D Z	0.944	6.40	2 D Z	0.952	6.52
1 E X	0.996	6.21	2 E X	0.940	6.53
1 E Y	1.00	6.15	2 E Y	0.949	6.49
1 E Z	1.00	6.18	2 E Z	0.947	6.50
1 F X	0.996	6.19	2 F X	0.936	6.36
1 F Y	0.995	6.20	2 F Y	0.920	6.48
1 F Z	0.976	6.15	2 F Z	0.918	6.50
1 G X	0.997	6.15	2 G X	0.945	6.33
1 G Y	0.987	6.01	2 G Y	0.968	6.39
1 G Z	0.981	6.02	2 G Z	0.962	6.43

Keterangan:

1 = Suhu Ruang (30 °C)

2 = Suhu Refrigerator (5 °C)

A, B, C, dst s/d G = Jam ke 0, 6, 12, dst

X = Ulangan 1

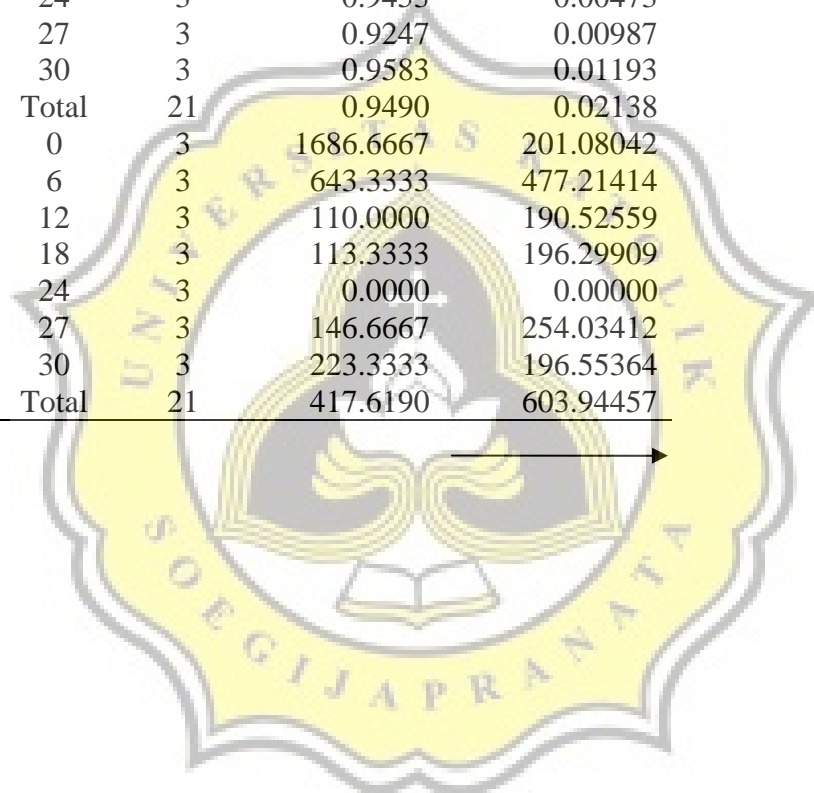
Y = Ulangan 2

Z = Ulangan 3

8.5. Lampiran 5. Hasil Uji *Descriptives*

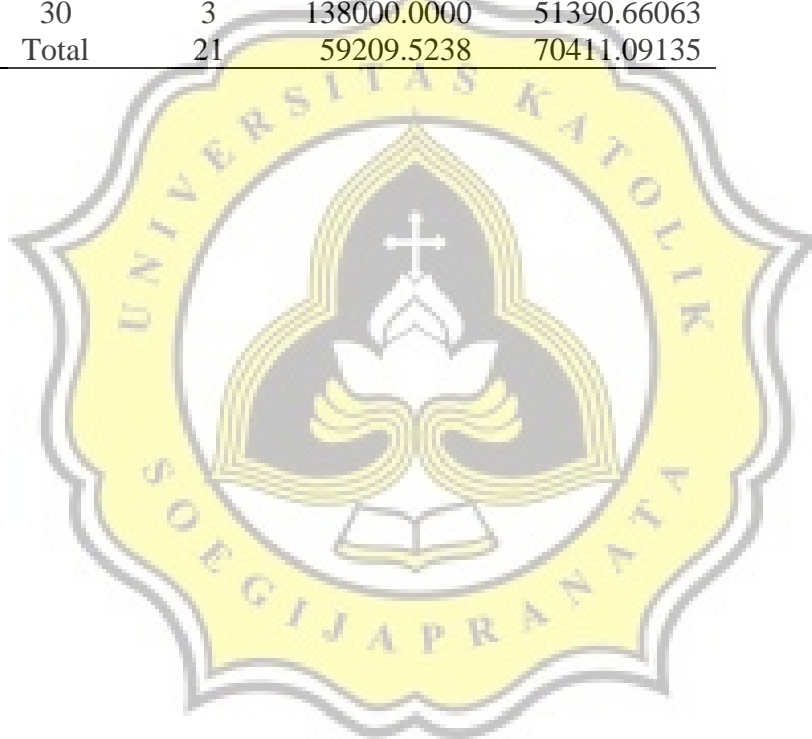
Tabel Hasil Uji *Descriptives* dari pH, A_w , dan TPC (CFU gram⁻¹) Pada Suhu Refrigerasi

Parameter	Jam ke-	N	Mean	Std. Deviation
pH	0	3	6.4533	0.04041
	6	3	6.4800	0.00000
	12	3	6.4667	0.04041
	18	3	6.5233	0.01528
	24	3	6.5067	0.02082
	27	3	6.4467	0.07572
	30	3	6.3833	0.05033
	Total	21	6.4657	0.05564
A_w	0	3	0.9817	0.01595
	6	3	0.9643	0.00493
	12	3	0.9260	0.00985
	18	3	0.9423	0.00907
	24	3	0.9453	0.00473
	27	3	0.9247	0.00987
	30	3	0.9583	0.01193
	Total	21	0.9490	0.02138
TPC	0	3	1686.6667	201.08042
	6	3	643.3333	477.21414
	12	3	110.0000	190.52559
	18	3	113.3333	196.29909
	24	3	0.0000	0.00000
	27	3	146.6667	254.03412
	30	3	223.3333	196.55364
	Total	21	417.6190	603.94457



Lanjutan Lampiran 5. Hasil Uji *Descriptives*Tabel Hasil Uji *Descriptives* dari pH dan TPC (CFU gram⁻¹) Pada Suhu Ruang

Parameter	Jam ke-	N	Mean	Std. Deviation
pH	0	3	6.4533	0.04041
	6	3	6.4933	0.01155
	12	3	6.4200	0.02646
	18	3	6.4133	0.01155
	24	3	6.1800	0.03000
	27	3	6.1800	0.02646
	30	3	6.0600	0.07810
	Total	21	6.3143	0.16430
	TPC	0	3	1686.6667
6		3	1003.3333	256.96952
12		3	4730.0000	5967.73827
18		3	1046.6667	280.23799
24		3	130666.6667	17953.64401
27		3	137333.3333	29670.41175
30		3	138000.0000	51390.66063
Total		21	59209.5238	70411.09135



8.6. Lampiran 6. Hasil Uji Non-Parametrik

Tabel Hasil Uji *Kruskal-Wallis* pada Suhu Refrigerasi

	pH	Kadar Air	A _w	TPC
Chi-Square	12.876	6.234	16.836	13.018
df	6	6	6	6
Asymp. Sig.	.045	.398	.010	.043

a Kruskal Wallis Test

b Grouping Variable: waktu

Tabel Hasil Uji *Mann-Whitney* pada Suhu Refrigerasi

	pH	Kadar Air	A _w	TPC
Mann-Whitney U	3.000	2.000	1.000	.000
Wilcoxon W	9.000	8.000	7.000	6.000
Z	-.707	-1.091	-1.528	-1.964
Asymp. Sig. (2-tailed)	.480	.275	.127	.050
Exact Sig. [2*(1-tailed Sig.)]	.700(a)	.400(a)	.200(a)	.100(a)

a Not corrected for ties.

b Grouping Variable: waktu (antara jam ke-0 dan 6)

	pH	Kadar Air	A _w	TPC
Mann-Whitney U	3.000	.000	.000	.000
Wilcoxon W	9.000	6.000	6.000	6.000
Z	-.696	-1.964	-1.964	-1.993
Asymp. Sig. (2-tailed)	.487	.050	.050	.046
Exact Sig. [2*(1-tailed Sig.)]	.700(a)	.100(a)	.100(a)	.100(a)

a Not corrected for ties.

b Grouping Variable: waktu (antara jam ke-0 dan 12)

Lanjutan Lampiran 6. Hasil Uji Non-Parametrik

Test Statistics(b)

	pH	Kadar Air	A _w	TPC
Mann-Whitney U	.000	.000	.000	.000
Wilcoxon W	6.000	6.000	6.000	6.000
Z	-1.993	-1.964	-1.964	-1.993
Asymp. Sig. (2-tailed)	.046	.050	.050	.046
Exact Sig. [2*(1-tailed Sig.)]	.100(a)	.100(a)	.100(a)	.100(a)

a Not corrected for ties.

b Grouping Variable: waktu (antara jam ke-0 dan 18)

Test Statistics(b)

	pH	Kadar Air	A _w	TPC
Mann-Whitney U	1.500	4.000	.000	.000
Wilcoxon W	7.500	10.000	6.000	6.000
Z	-1.348	-.218	-1.964	-2.087
Asymp. Sig. (2-tailed)	.178	.827	.050	.037
Exact Sig. [2*(1-tailed Sig.)]	.200(a)	1.000(a)	.100(a)	.100(a)

a Not corrected for ties.

b Grouping Variable: waktu (antara jam ke-0 dan 24))

Test Statistics(b)

	pH	Kadar Air	A _w	TPC
Mann-Whitney U	4.500	3.000	.000	.000
Wilcoxon W	10.500	9.000	6.000	6.000
Z	.000	-.655	-1.964	-1.993
Asymp. Sig. (2-tailed)	1.000	.513	.050	.046
Exact Sig. [2*(1-tailed Sig.)]	1.000(a)	.700(a)	.100(a)	.100(a)

a Not corrected for ties.

b Grouping Variable: waktu (antara jam ke-0 dan 27)

Lanjutan Lampiran 6. Hasil Uji Non-Parametrik

Test Statistics(b)

	pH	Kadar Air	A _w	TPC
Mann-Whitney U	1.000	4.000	1.000	.000
Wilcoxon W	7.000	10.000	7.000	6.000
Z	-1.623	-.218	-1.528	-1.964
Asymp. Sig. (2-tailed)	.105	.827	.127	.050
Exact Sig. [2*(1-tailed Sig.)]	.200(a)	1.000(a)	.200(a)	.100(a)

a Not corrected for ties.

b Grouping Variable: waktu (antara jam ke-0 dan 30)

Test Statistics(b)

	pH	Kadar Air	A _w	TPC
Mann-Whitney U	3.000	3.000	.000	1.000
Wilcoxon W	9.000	9.000	6.000	7.000
Z	-.696	-.655	-1.964	-1.550
Asymp. Sig. (2-tailed)	.487	.513	.050	.121
Exact Sig. [2*(1-tailed Sig.)]	.700(a)	.700(a)	.100(a)	.200(a)

a Not corrected for ties.

b Grouping Variable: waktu (antara jam ke-6 dan 12)

Test Statistics(b)

	pH	Kadar Air	A _w	TPC
Mann-Whitney U	.000	4.000	.000	1.000
Wilcoxon W	6.000	10.000	6.000	7.000
Z	-2.087	-.218	-1.964	-1.550
Asymp. Sig. (2-tailed)	.037	.827	.050	.121
Exact Sig. [2*(1-tailed Sig.)]	.100(a)	1.000(a)	.100(a)	.200(a)

a Not corrected for ties.

b Grouping Variable: waktu (antara jam ke-6 dan 18)

Lanjutan Lampiran 6. Hasil Uji Non-Parametrik

Test Statistics(b)

	pH	Kadar Air	A _w	TPC
Mann-Whitney U	.000	4.000	.000	.000
Wilcoxon W	6.000	10.000	6.000	6.000
Z	-2.087	-.218	-1.964	-2.087
Asymp. Sig. (2-tailed)	.037	.827	.050	.037
Exact Sig. [2*(1-tailed Sig.)]	.100(a)	1.000(a)	.100(a)	.100(a)

a Not corrected for ties.

b Grouping Variable: waktu (antara jam ke-6 dan 24)

Test Statistics(b)

	pH	Kadar Air	A _w	TPC
Mann-Whitney U	4.500	3.000	.000	2.000
Wilcoxon W	10.500	9.000	6.000	8.000
Z	.000	-.655	-1.964	-1.107
Asymp. Sig. (2-tailed)	1.000	.513	.050	.268
Exact Sig. [2*(1-tailed Sig.)]	1.000(a)	.700(a)	.100(a)	.400(a)

a Not corrected for ties.

b Grouping Variable: waktu (antara jam ke-6 dan 27)

Test Statistics(b)

	pH	Kadar Air	A _w	TPC
Mann-Whitney U	.000	3.000	3.500	1.000
Wilcoxon W	6.000	9.000	9.500	7.000
Z	-2.087	-.655	-.443	-1.528
Asymp. Sig. (2-tailed)	.037	.513	.658	.127
Exact Sig. [2*(1-tailed Sig.)]	.100(a)	.700(a)	.700(a)	.200(a)

a Not corrected for ties.

b Grouping Variable: waktu (antara jam ke-6 dan 30)

Lanjutan Lampiran 6. Hasil Uji Non-Parametrik

Test Statistics(b)

	pH	Kadar Air	A _w	TPC
Mann-Whitney U	.500	4.000	1.000	4.000
Wilcoxon W	6.500	10.000	7.000	10.000
Z	-1.771	-.218	-1.528	-.258
Asymp. Sig. (2-tailed)	.077	.827	.127	.796
Exact Sig. [2*(1-tailed Sig.)]	.100(a)	1.000(a)	.200(a)	1.000(a)

a Not corrected for ties.

b Grouping Variable: waktu (antara jam ke-12 dan 18)

Test Statistics(b)

	pH	Kadar Air	A _w	TPC
Mann-Whitney U	2.000	3.000	.000	3.000
Wilcoxon W	8.000	9.000	6.000	9.000
Z	-1.091	-.655	-1.964	-1.000
Asymp. Sig. (2-tailed)	.275	.513	.050	.317
Exact Sig. [2*(1-tailed Sig.)]	.400(a)	.700(a)	.100(a)	.700(a)

a Not corrected for ties.

b Grouping Variable: waktu (antara jam ke-12 dan 24)

Test Statistics(b)

	pH	Kadar Air	A _w	TPC
Mann-Whitney U	4.000	.000	3.500	4.000
Wilcoxon W	10.000	6.000	9.500	10.000
Z	-.218	-1.964	-.443	-.258
Asymp. Sig. (2-tailed)	.827	.050	.658	.796
Exact Sig. [2*(1-tailed Sig.)]	1.000(a)	.100(a)	.700(a)	1.000(a)

a Not corrected for ties.

b Grouping Variable: waktu (antara jam ke-12 dan 27)

Lanjutan Lampiran 6. Hasil Uji Non-Parametrik

Test Statistics(b)

	pH	Kadar Air	A _w	TPC
Mann-Whitney U	.500	1.000	.000	3.000
Wilcoxon W	6.500	7.000	6.000	9.000
Z	-1.771	-1.528	-1.964	-.696
Asymp. Sig. (2-tailed)	.077	.127	.050	.487
Exact Sig. [2*(1-tailed Sig.)]	.100(a)	.200(a)	.100(a)	.700(a)

a Not corrected for ties.

b Grouping Variable: waktu (antara jam ke-12 dan 30)

Test Statistics(b)

	pH	Kadar Air	A _w	TPC
Mann-Whitney U	2.000	3.000	4.000	3.000
Wilcoxon W	8.000	9.000	10.000	9.000
Z	-1.091	-.655	-.218	-1.000
Asymp. Sig. (2-tailed)	.275	.513	.827	.317
Exact Sig. [2*(1-tailed Sig.)]	.400(a)	.700(a)	1.000(a)	.700(a)

a Not corrected for ties.

b Grouping Variable: waktu (antara jam ke-18 dan 24)

Test Statistics(b)

	pH	Kadar Air	A _w	TPC
Mann-Whitney U	.000	.000	1.000	4.000
Wilcoxon W	6.000	6.000	7.000	10.000
Z	-1.964	-1.964	-1.528	-.258
Asymp. Sig. (2-tailed)	.050	.050	.127	.796
Exact Sig. [2*(1-tailed Sig.)]	.100(a)	.100(a)	.200(a)	1.000(a)

a Not corrected for ties.

b Grouping Variable: waktu (antara jam ke-18 dan 27)

Lanjutan Lampiran 6. Hasil Uji Non-Parametrik

Test Statistics(b)

	pH	Kadar Air	A _w	TPC
Mann-Whitney U	.000	2.000	1.000	3.000
Wilcoxon W	6.000	8.000	7.000	9.000
Z	-1.964	-1.091	-1.528	-.696
Asymp. Sig. (2-tailed)	.050	.275	.127	.487
Exact Sig. [2*(1-tailed Sig.)]	.100(a)	.400(a)	.200(a)	.700(a)

a Not corrected for ties.

b Grouping Variable: waktu (antara jam ke-18 dan 30)

Test Statistics(b)

	pH	Kadar Air	A _w	TPC
Mann-Whitney U	1.500	3.000	.000	3.000
Wilcoxon W	7.500	9.000	6.000	9.000
Z	-1.328	-.655	-1.964	-1.000
Asymp. Sig. (2-tailed)	.184	.513	.050	.317
Exact Sig. [2*(1-tailed Sig.)]	.200(a)	.700(a)	.100(a)	.700(a)

a Not corrected for ties.

b Grouping Variable: waktu (antara jam ke-24 dan 27)

Test Statistics(b)

	pH	Kadar Air	A _w	TPC
Mann-Whitney U	.000	4.000	2.000	1.500
Wilcoxon W	6.000	10.000	8.000	7.500
Z	-1.964	-.218	-1.091	-1.549
Asymp. Sig. (2-tailed)	.050	.827	.275	.121
Exact Sig. [2*(1-tailed Sig.)]	.100(a)	1.000(a)	.400(a)	.200(a)

a Not corrected for ties.

b Grouping Variable: waktu (antara jam ke-24 dan 30)

Lanjutan Lampiran 6. Hasil Uji Non-Parametrik

Test Statistics(b)

	pH	Kadar Air	A _w	TPC
Mann-Whitney U	2.000	3.000	.000	4.000
Wilcoxon W	8.000	9.000	6.000	10.000
Z	-1.091	-.655	-1.964	-.232
Asymp. Sig. (2-tailed)	.275	.513	.050	.817
Exact Sig. [2*(1-tailed Sig.)]	.400(a)	.700(a)	.100(a)	1.000(a)

a Not corrected for ties.

b Grouping Variable: waktu (antara jam ke-27 dan 30)

Tabel Hasil Uji *Kruskal-Wallis* pada Suhu Ruang

Test Statistics(a,b)

	pH	Kadar Air	A _w	TPC
Chi-Square	18.134	9.506	7.491	16.277
df	6	6	6	6
Asymp. Sig.	.006	.147	.278	.012

a Kruskal Wallis Test

b Grouping Variable: waktu

Tabel Hasil Uji *Mann-Whitney* pada Suhu Ruang

Test Statistics(b)

	pH	Kadar Air	A _w	TPC
Mann-Whitney U	2.000	2.000	4.000	.000
Wilcoxon W	8.000	8.000	10.000	6.000
Z	-1.179	-1.091	-.218	-1.964
Asymp. Sig. (2-tailed)	.239	.275	.827	.050
Exact Sig. [2*(1-tailed Sig.)]	.400(a)	.400(a)	1.000(a)	.100(a)

a Not corrected for ties.

b Grouping Variable: waktu (antara jam ke-0 dan 6)

Lanjutan Lampiran 6. Hasil Uji Non-Parametrik

Test Statistics(b)

	pH	Kadar Air	A _w	TPC
Mann-Whitney U	2.000	3.000	4.000	4.000
Wilcoxon W	8.000	9.000	10.000	10.000
Z	-1.107	-.655	-.218	-.218
Asymp. Sig. (2-tailed)	.268	.513	.827	.827
Exact Sig. [2*(1-tailed Sig.)]	.400(a)	.700(a)	1.000(a)	1.000(a)

a Not corrected for ties.

b Grouping Variable: waktu (antara jam ke-0 dan 12)

Test Statistics(b)

	pH	Kadar Air	A _w	TPC
Mann-Whitney U	.000	4.000	3.000	.000
Wilcoxon W	6.000	10.000	9.000	6.000
Z	-2.023	-.218	-.655	-1.964
Asymp. Sig. (2-tailed)	.043	.827	.513	.050
Exact Sig. [2*(1-tailed Sig.)]	.100(a)	1.000(a)	.700(a)	.100(a)

a Not corrected for ties.

b Grouping Variable: waktu (antara jam ke-0 dan 18)

Test Statistics(b)

	pH	Kadar Air	A _w	TPC
Mann-Whitney U	.000	2.000	.000	.000
Wilcoxon W	6.000	8.000	6.000	6.000
Z	-1.993	-1.091	-1.993	-1.964
Asymp. Sig. (2-tailed)	.046	.275	.046	.050
Exact Sig. [2*(1-tailed Sig.)]	.100(a)	.400(a)	.100(a)	.100(a)

a Not corrected for ties.

b Grouping Variable: waktu (antara jam ke-0 dan 24)

Lanjutan Lampiran 6. Hasil Uji Non-Parametrik

Test Statistics(b)

	pH	Kadar Air	A _w	TPC
Mann-Whitney U	.000	4.000	2.500	.000
Wilcoxon W	6.000	10.000	8.500	6.000
Z	-1.993	-.218	-.886	-1.964
Asymp. Sig. (2-tailed)	.046	.827	.376	.050
Exact Sig. [2*(1-tailed Sig.)]	.100(a)	1.000(a)	.400(a)	.100(a)

a Not corrected for ties.

b Grouping Variable: waktu (antara jam ke-0 dan 27)

Test Statistics(b)

	pH	Kadar Air	A _w	TPC
Mann-Whitney U	.000	3.000	3.000	.000
Wilcoxon W	6.000	9.000	9.000	6.000
Z	-1.993	-.655	-.655	-1.964
Asymp. Sig. (2-tailed)	.046	.513	.513	.050
Exact Sig. [2*(1-tailed Sig.)]	.100(a)	.700(a)	.700(a)	.100(a)

a Not corrected for ties.

b Grouping Variable: waktu (antara jam ke-0 dan 30)

Test Statistics(b)

	pH	Kadar Air	A _w	TPC
Mann-Whitney U	.000	4.000	4.000	3.000
Wilcoxon W	6.000	10.000	10.000	9.000
Z	-1.993	-.218	-.218	-.655
Asymp. Sig. (2-tailed)	.046	.827	.827	.513
Exact Sig. [2*(1-tailed Sig.)]	.100(a)	1.000(a)	1.000(a)	.700(a)

a Not corrected for ties.

b Grouping Variable: waktu (antara jam ke-6 dan 12)

Lanjutan Lampiran 6. Hasil Uji Non-Parametrik

Test Statistics(b)

	pH	Kadar Air	A _w	TPC
Mann-Whitney U	.000	1.000	3.000	4.000
Wilcoxon W	6.000	7.000	9.000	10.000
Z	-2.023	-1.528	-.655	-.218
Asymp. Sig. (2-tailed)	.043	.127	.513	.827
Exact Sig. [2*(1-tailed Sig.)]	.100(a)	.200(a)	.700(a)	1.000(a)

a Not corrected for ties.

b Grouping Variable: waktu (antara jam ke-6 dan 18)

Test Statistics(b)

	pH	Kadar Air	A _w	TPC
Mann-Whitney U	.000	1.000	.000	.000
Wilcoxon W	6.000	7.000	6.000	6.000
Z	-1.993	-1.528	-1.993	-1.964
Asymp. Sig. (2-tailed)	.046	.127	.046	.050
Exact Sig. [2*(1-tailed Sig.)]	.100(a)	.200(a)	.100(a)	.100(a)

a Not corrected for ties.

b Grouping Variable: waktu (antara jam ke-6 dan 24)

Test Statistics(b)

	pH	Kadar Air	A _w	TPC
Mann-Whitney U	.000	.000	2.000	.000
Wilcoxon W	6.000	6.000	8.000	6.000
Z	-1.993	-1.964	-1.091	-1.964
Asymp. Sig. (2-tailed)	.046	.050	.275	.050
Exact Sig. [2*(1-tailed Sig.)]	.100(a)	.100(a)	.400(a)	.100(a)

a Not corrected for ties.

b Grouping Variable: waktu (antara jam ke-6 dan 27)

Lanjutan Lampiran 6. Hasil Uji Non-Parametrik

Test Statistics(b)

	pH	Kadar Air	A _w	TPC
Mann-Whitney U	.000	4.000	4.000	.000
Wilcoxon W	6.000	10.000	10.000	6.000
Z	-1.993	-.218	-.218	-1.964
Asymp. Sig. (2-tailed)	.046	.827	.827	.050
Exact Sig. [2*(1-tailed Sig.)]	.100(a)	1.000(a)	1.000(a)	.100(a)

a Not corrected for ties.

b Grouping Variable: waktu (antara jam ke-6 dan 30)

Test Statistics(b)

	pH	Kadar Air	A _w	TPC
Mann-Whitney U	4.500	1.000	2.000	2.000
Wilcoxon W	10.500	7.000	8.000	8.000
Z	.000	-1.528	-1.091	-1.091
Asymp. Sig. (2-tailed)	1.000	.127	.275	.275
Exact Sig. [2*(1-tailed Sig.)]	1.000(a)	.200(a)	.400(a)	.400(a)

a Not corrected for ties.

b Grouping Variable: waktu (antara jam ke-12 dan 18)

Test Statistics(b)

	pH	Kadar Air	A _w	TPC
Mann-Whitney U	.000	1.000	3.000	.000
Wilcoxon W	6.000	7.000	9.000	6.000
Z	-1.964	-1.528	-.664	-1.964
Asymp. Sig. (2-tailed)	.050	.127	.507	.050
Exact Sig. [2*(1-tailed Sig.)]	.100(a)	.200(a)	.700(a)	.100(a)

a Not corrected for ties.

b Grouping Variable: waktu (antara jam ke-12 dan 24)

Lanjutan Lampiran 6. Hasil Uji Non-Parametrik

Test Statistics(b)

	pH	Kadar Air	A _w	TPC
Mann-Whitney U	.000	1.000	4.000	.000
Wilcoxon W	6.000	7.000	10.000	6.000
Z	-1.964	-1.528	-.218	-1.964
Asymp. Sig. (2-tailed)	.050	.127	.827	.050
Exact Sig. [2*(1-tailed Sig.)]	.100(a)	.200(a)	1.000(a)	.100(a)

a Not corrected for ties.

b Grouping Variable: waktu (antara jam ke-12 dan 27)

Test Statistics(b)

	pH	Kadar Air	A _w	TPC
Mann-Whitney U	.000	3.000	4.000	.000
Wilcoxon W	6.000	9.000	10.000	6.000
Z	-1.964	-.655	-.218	-1.964
Asymp. Sig. (2-tailed)	.050	.513	.827	.050
Exact Sig. [2*(1-tailed Sig.)]	.100(a)	.700(a)	1.000(a)	.100(a)

a Not corrected for ties.

b Grouping Variable: waktu (antara jam ke-12 dan 30)

Test Statistics(b)

	pH	Kadar Air	A _w	TPC
Mann-Whitney U	.000	3.000	.000	.000
Wilcoxon W	6.000	9.000	6.000	6.000
Z	-1.993	-.655	-1.993	-1.964
Asymp. Sig. (2-tailed)	.046	.513	.046	.050
Exact Sig. [2*(1-tailed Sig.)]	.100(a)	.700(a)	.100(a)	.100(a)

a Not corrected for ties.

b Grouping Variable: waktu (antara jam ke-18 dan 24)

Lanjutan Lampiran 6. Hasil Uji Non-Parametrik

Test Statistics(b)

	pH	Kadar Air	A _w	TPC
Mann-Whitney U	.000	3.000	1.000	.000
Wilcoxon W	6.000	9.000	7.000	6.000
Z	-1.993	-.655	-1.528	-1.964
Asymp. Sig. (2-tailed)	.046	.513	.127	.050
Exact Sig. [2*(1-tailed Sig.)]	.100(a)	.700(a)	.200(a)	.100(a)

a Not corrected for ties.

b Grouping Variable: waktu (antara jam ke-18 dan 27)

Test Statistics(b)

	pH	Kadar Air	A _w	TPC
Mann-Whitney U	.000	.000	2.000	.000
Wilcoxon W	6.000	6.000	8.000	6.000
Z	-1.993	-1.964	-1.091	-1.964
Asymp. Sig. (2-tailed)	.046	.050	.275	.050
Exact Sig. [2*(1-tailed Sig.)]	.100(a)	.100(a)	.400(a)	.100(a)

a Not corrected for ties.

b Grouping Variable: waktu (antara jam ke-18 dan 30)

Test Statistics(b)

	pH	Kadar Air	A _w	TPC
Mann-Whitney U	4.500	4.000	.500	4.000
Wilcoxon W	10.500	10.000	6.500	10.000
Z	.000	-.218	-1.798	-.218
Asymp. Sig. (2-tailed)	1.000	.827	.072	.827
Exact Sig. [2*(1-tailed Sig.)]	1.000(a)	1.000(a)	.100(a)	1.000(a)

a Not corrected for ties.

b Grouping Variable: waktu (antara jam ke-24 dan 27)

Lanjutan Lampiran 6. Hasil Uji Non-Parametrik

Test Statistics(b)

	pH	Kadar Air	A _w	TPC
Mann-Whitney U	.500	.000	1.000	4.000
Wilcoxon W	6.500	6.000	7.000	10.000
Z	-1.771	-1.964	-1.550	-.218
Asymp. Sig. (2-tailed)	.077	.050	.121	.827
Exact Sig. [2*(1-tailed Sig.)]	.100(a)	.100(a)	.200(a)	1.000(a)

a Not corrected for ties.

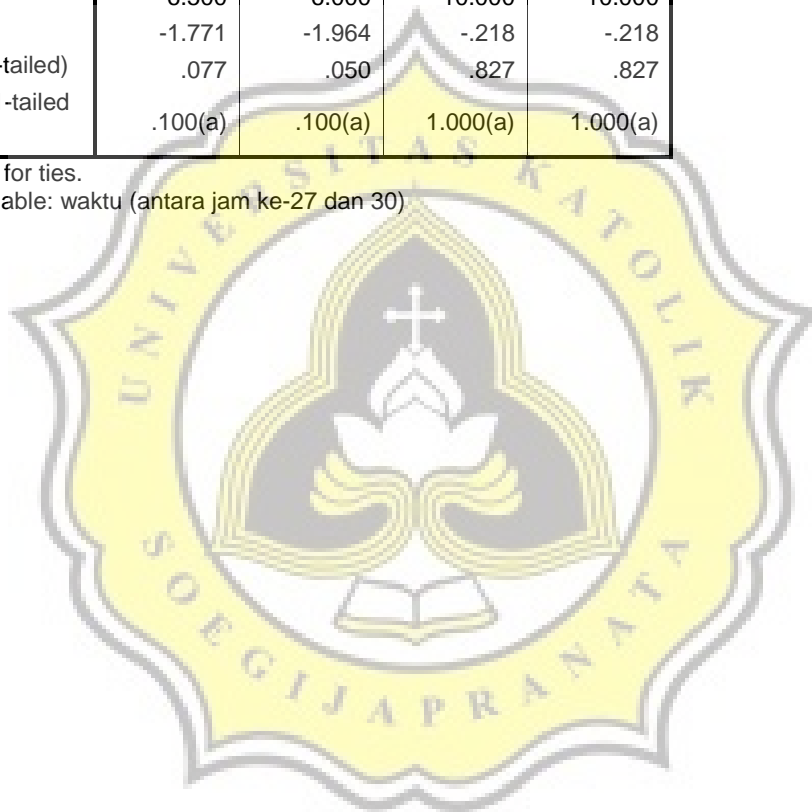
b Grouping Variable: waktu (antara jam ke-24 dan 30)

Test Statistics(b)

	pH	Kadar Air	A _w	TPC
Mann-Whitney U	.500	.000	4.000	4.000
Wilcoxon W	6.500	6.000	10.000	10.000
Z	-1.771	-1.964	-.218	-.218
Asymp. Sig. (2-tailed)	.077	.050	.827	.827
Exact Sig. [2*(1-tailed Sig.)]	.100(a)	.100(a)	1.000(a)	1.000(a)

a Not corrected for ties.

b Grouping Variable: waktu (antara jam ke-27 dan 30)



8.7. Lampiran 7. Hasil Uji ANOVA untuk Garis Regresi

Tabel ANOVA untuk A_w pada Suhu Refrigerasi

ANOVA

	Sum of Squares	df	Mean Square	F	Sig.
Regression	.002	3	.001	2.275	.259
Residual	.001	3	.000		
Total	.003	6			

The independent variable is Waktu.

Tabel ANOVA untuk A_w pada Suhu Ruang

ANOVA

	Sum of Squares	df	Mean Square	F	Sig.
Regression	.000	3	.000	.330	.806
Residual	.000	3	.000		
Total	.001	6			

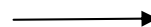
The independent variable is Waktu.

Tabel ANOVA untuk pH pada Suhu Refrigerasi

ANOVA

	Sum of Squares	df	Mean Square	F	Sig.
Regression	.011	3	.004	8.431	.057
Residual	.001	3	.000		
Total	.013	6			

The independent variable is Waktu.



Lanjutan Lampiran 7. Hasil Uji ANOVA untuk Garis Regresi

Tabel ANOVA untuk pH pada Suhu Ruang

ANOVA

	Sum of Squares	df	Mean Square	F	Sig.
Regression	.166	3	.055	23.772	.014
Residual	.007	3	.002		
Total	.173	6			

The independent variable is Waktu.

Tabel ANOVA untuk Kadar Air pada Suhu Refrigerasi

ANOVA

	Sum of Squares	df	Mean Square	F	Sig.
Regression	.767	3	.256	15.417	.025
Residual	.050	3	.017		
Total	.817	6			

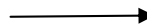
The independent variable is Waktu.

Tabel ANOVA untuk Kadar Air pada Suhu Ruang

ANOVA

	Sum of Squares	df	Mean Square	F	Sig.
Regression	.838	3	.279	6.338	.082
Residual	.132	3	.044		
Total	.970	6			

The independent variable is Waktu.



Lanjutan Lampiran 7. Hasil Uji ANOVA untuk Garis Regresi

Tabel ANOVA untuk TPC pada Suhu Refrigerasi

ANOVA

	Sum of Squares	df	Mean Square	F	Sig.
Regression	3.935	3	1.312	1.697	.337
Residual	2.319	3	.773		
Total	6.254	6			

The independent variable is Waktu.

Tabel ANOVA untuk TPC pada Suhu Ruang

ANOVA

	Sum of Squares	df	Mean Square	F	Sig.
Regression	5.296	3	1.765	4.447	.126
Residual	1.191	3	.397		
Total	6.486	6			

The independent variable is Waktu.

