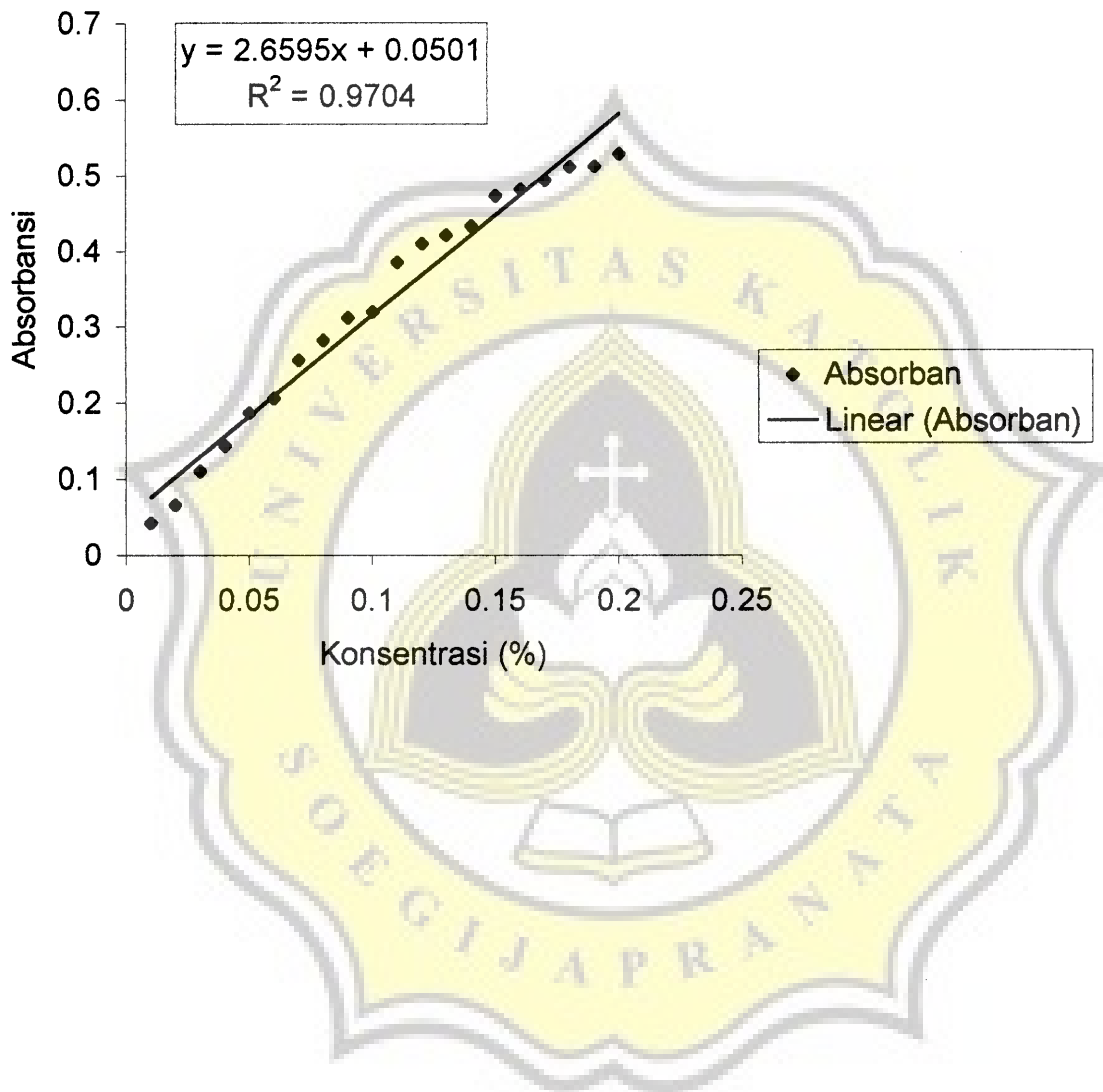


LAMPIRAN 1

Kurva Standar Larutan Pati (0.01-0.20 %)



LAMPIRAN 2

Tabel Penghitungan Aktivitas Enzim pada Suhu 60 °C

Kode Sampel	Absorban	Konsentr Akhr (%)	Jml Pati Akhir(g)	Jml Pati Terhidr. (g)	Aktvts Enzim (unit/mnt)
K.Hijau-A	0.3905	0.127994	0.002560	0.001673	167.31
	0.3825	0.124986	0.002500	0.001733	173.33
	0.3540	0.114270	0.002285	0.001948	194.76
	0.3555	0.114834	0.002297	0.001936	193.63
	0.3705	0.120474	0.002409	0.001824	182.35
	0.3825	0.124986	0.002500	0.001733	173.33
K.Hijau-B	0.4625	0.155067	0.003101	0.001132	113.17
	0.4875	0.164467	0.003289	0.000944	94.37
	0.4162	0.137657	0.002753	0.001480	147.99
	0.4625	0.155067	0.003101	0.001132	113.17
	0.4370	0.145478	0.002910	0.001323	132.34
	0.4537	0.151758	0.003035	0.001198	119.78
K.Begog-A	0.2470	0.074036	0.001481	0.002752	275.23
	0.2800	0.086445	0.001729	0.002504	250.41
	0.1945	0.054296	0.001086	0.003147	314.71
	0.2345	0.069336	0.001387	0.002846	284.63
	0.2782	0.085768	0.001715	0.002518	251.76
	0.2017	0.057003	0.001140	0.003093	309.29
K.Begog-B	0.2495	0.074976	0.001500	0.002733	273.35
	0.2925	0.091145	0.001823	0.002410	241.01
	0.2315	0.068208	0.001364	0.002869	286.88
	0.2302	0.067719	0.001354	0.002879	287.86
	0.2742	0.084264	0.001685	0.002548	254.77
	0.2720	0.083437	0.001669	0.002564	256.43
BLANKO	0.6130	0.211656	0.004233		

Keterangan :

A = Penambahan Amonium Sulfat 50 %

B = Penambahan Amonium Sulfat 65 %

Persamaan Regresi Linear untuk Menentukan Konsentrasi Akhir :

$$y = 2.6595 x + 0.0501$$

Perhitungan Jumlah Pati Akhir :

$$\text{Jml Pati (g)} = \text{Konsentrasi Akhir (\%)} \times 2 \text{ ml}$$

Perhitungan Jumlah Pati Terhidrolisis :

$$\text{Jml Pati (g)} = \text{Jumlah Pati Akhir Blanko (g)} - \text{Jumlah Pati Akhir Sampel (g)}$$

Perhitungan Aktivitas Enzim :

$$\text{Aktivitas Enzim (unit/menit)} = (\text{Jml Pati Terhidrolisis} \times 10^6 \mu\text{g}) / 10 \text{ menit}$$

LAMPIRAN 3

Tabel Penghitungan Aktivitas Enzim pada Suhu 75 °C

Kode Sampel	Absorban	Konsentr Akhr (%)	Jml Pati Akhir (g)	Jml pati terhidr. (g)	Aktvts Enzim (unit/mnt)
Hijau-A	0.3575	0.115586	0.002312	0.001887	188.73
	0.3790	0.123670	0.002473	0.001726	172.56
	0.3450	0.110886	0.002218	0.001981	198.13
	0.3435	0.110321	0.002206	0.001993	199.26
	0.3675	0.119346	0.002387	0.001812	181.21
	0.3395	0.108817	0.002176	0.002023	202.27
Hijau-B	0.4020	0.132318	0.002646	0.001553	155.26
	0.4190	0.138710	0.002774	0.001425	142.48
	0.4100	0.135326	0.002707	0.001492	149.25
	0.4005	0.131754	0.002635	0.001564	156.39
	0.4280	0.142094	0.002842	0.001357	135.71
	0.4005	0.131754	0.002635	0.001564	156.39
Begog-A	0.3690	0.119910	0.002398	0.001801	180.08
	0.3490	0.112390	0.002248	0.001951	195.12
	0.3475	0.111826	0.002237	0.001962	196.25
	0.3800	0.124046	0.002481	0.001718	171.81
	0.3565	0.115210	0.002304	0.001895	189.48
	0.3675	0.119346	0.002387	0.001812	181.21
Begog-B	0.3890	0.127430	0.002549	0.001650	165.04
	0.3805	0.124234	0.002485	0.001714	171.43
	0.3800	0.124046	0.002481	0.001718	171.81
	0.3975	0.130626	0.002613	0.001586	158.65
	0.3890	0.127430	0.002549	0.001650	165.04
	0.3825	0.124986	0.002500	0.001699	169.93
BLANKO	0.6085	0.209964	0.004199		

Keterangan :

A = Penambahan Amonium Sulfat 50 %

B = Penambahan Amonium Sulfat 65 %

Persamaan Regresi Linear untuk Menentukan Konsentrasi Akhir :

$$y = 2.6595 x + 0.0501$$

Perhitungan Jumlah Pati Akhir :

$$\text{Jml Pati (g)} = \text{Konsentrasi Akhir (\%)} \times 2 \text{ ml}$$

Perhitungan Jumlah Pati Terhidrolisis :

$$\text{Jml Pati (g)} = \text{Jumlah Pati Akhir Blanko (g)} - \text{Jumlah Pati Akhir Sampel (g)}$$

Perhitungan Aktivitas Enzim :

$$\text{Aktivitas Enzim (unit/menit)} = (\text{Jml Pati Terhidrolisis} \times 10^6 \mu\text{g}) / 10 \text{ menit}$$



LAMPIRAN 4

Hasil Anova Satu Arah Berat Enzim Amilase

Oneway

ANOVA

ENZ_KRG

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	7.434	3	2.478	89.172	.000
Within Groups	.111	4	2.779E-02		
Total	7.545	7			

Post Hoc Tests

Homogeneous Subsets

ENZ_KRG

Duncan^a

PERLAKN	N	Subset for alpha = .05		
		1	2	3
hijau/ 50%grm	2	1.0100		
hijau/ 65%grm	2		2.2150	
begog/ 50%grm	2		2.5550	
begog/ 65%grm	2			3.7150
Sig.		1.000	.111	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 2.000.

LAMPIRAN 5

Hasil Anova Satu Arah Aktivitas Enzim Amilase pada Suhu 60 °C

Oneway

Test of Homogeneity of Variances

AKTIVTS

Levene Statistic	df1	df2	Sig.
1.703	3	20	.199

ANOVA

AKTIVTS

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	103013.71	3	34337.904	86.686	.000
Within Groups	7922.383	20	396.119		
Total	110936.09	23			

Post Hoc Tests

Homogeneous Subsets

AKTIVTS

Duncan^a

PERLAKN	N	Subset for alpha = .05		
		1	2	3
hijau/ 65%grm	6	120.13533		
hijau/ 50%grm	6		180.78567	
begog/ 65%grm	6			266.71667
begog/ 50%grm	6			281.00500
Sig.		1.000	1.000	.228

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

LAMPIRAN 6

Hasil Anova Satu Arah Aktivitas Enzim Amilase pada Suhu 75 °C

Oneway

Test of Homogeneity of Variances

AKTIVTS

Levene Statistic	df1	df2	Sig.
1.865	3	20	.168

ANOVA

AKTIVTS

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	6371.384	3	2123.795	25.905	.000
Within Groups	1639.653	20	81.983		
Total	8011.037	23			

Post Hoc Tests

Homogeneous Subsets

AKTIVTS

Duncan^a

PERLAKN	N	Subset for alpha = .05		
		1	2	3
4.00	6	149.24767		
2.00	6		166.98267	
1.00	6			185.65800
3.00	6			190.35817
Sig.		1.000	1.000	.379

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

LAMPIRAN 7

Hasil Anova Satu Arah Aktivitas Enzim Amilase dengan Penambahan Garam Amonium Sulfat 50 %

Oneway

Test of Homogeneity of Variances

AKTIVTS

Levene Statistic	df1	df2	Sig.
4.067	3	20	.021

ANOVA

AKTIVTS

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	41233.916	3	13744.639	49.327	.000
Within Groups	5572.892	20	278.645		
Total	46806.808	23			

Post Hoc Tests

Homogeneous Subsets

AKTIVTS

Duncan^a

PERLAKN	N	Subset for alpha = .05	
		1	2
hijau/ 60 C	6	180.78567	
begog/ 75 C	6	185.65800	
hijau/ 75 C	6	190.35817	
begog/ 60 C	6		281.00500
Sig.		.359	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

LAMPIRAN 8

Hasil Anova Satu Arah Aktivitas Enzim Amilase dengan Penambahan Garam Amonium Sulfat 65 %

Oneway

Test of Homogeneity of Variances

AKTIVTS

Levene Statistic	df1	df2	Sig.
3.656	3	20	.030

ANOVA

AKTIVTS

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	72882.982	3	24294.327	121.802	.000
Within Groups	3989.144	20	199.457		
Total	76872.126	23			

Post Hoc Tests

Homogeneous Subsets

AKTIVTS

Duncan^a

PERLAKN	N	Subset for alpha = .05			
		1	2	3	4
hijau/ 60 C	6	120.13533			
hijau/ 75 C	6		149.24767		
begog/ 75 C	6			166.98267	
begog/ 60 C	6				266.71667
Sig.		1.000	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

LAMPIRAN 9

Hasil Anova Dua Arah Berat Enzim Amilase

Univariate Analysis of Variance

Between-Subjects Factors

	Value Label	N	
JNS_KORO	1.00	begog	4
	2.00	hijau	4
KONS_GRM	1.00	50%	4
	2.00	65%	4

Levene's Test of Equality of Error Variances^a

Dependent Variable: ENZ_KRG

F	df1	df2	Sig.
.	3	4	.

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Design:

Intercept+JNS_KORO+KONS_GRM+JNS_KORO *
KONS_GRM

Tests of Between-Subjects Effects

Dependent Variable: ENZ_KRG

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	7.434 ^a	3	2.478	89.172	.000
Intercept	45.078	1	45.078	1622.223	.000
JNS_KORO	4.636	1	4.636	166.838	.000
KONS_GRM	2.797	1	2.797	100.643	.001
JNS_KORO * KONS_GRM	1.012E-03	1	1.012E-03	.036	.858
Error	.111	4	2.779E-02		
Total	52.622	8			
Corrected Total	7.545	7			

a. R Squared = .985 (Adjusted R Squared = .974)

LAMPIRAN 10

Hasil Anova Dua Arah Aktivitas Enzim Amilase pada Suhu 60 °C

Univariate Analysis of Variance

Between-Subjects Factors

		Value Label	N
JNS_KORO	1.00	begog	12
	2.00	hijau	12
KONS_GRM	1.00	50%	12
	2.00	65%	12

Levene's Test of Equality of Error Variances^a

Dependent Variable: AKTIVTS

F	df1	df2	Sig.
1.703	3	20	.199

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Design: Intercept+JNS_KORO+KONS_GRM+JNS_KORO * KONS_GRM

Tests of Between-Subjects Effects

Dependent Variable: AKTIVTS

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	103013.712 ^a	3	34337.904	86.686	.000
Intercept	1080291.564	1	1080291.564	2727.188	.000
JNS_KORO	91365.854	1	91365.854	230.652	.000
KONS_GRM	8423.706	1	8423.706	21.266	.000
JNS_KORO * KONS_GRM	3224.153	1	3224.153	8.139	.010
Error	7922.383	20	396.119		
Total	1191227.658	24			
Corrected Total	110936.095	23			

a. R Squared = .929 (Adjusted R Squared = .918)

LAMPIRAN 11

Hasil Anova Dua Arah Aktivitas Enzim Amilase pada Suhu 75 °C

Univariate Analysis of Variance

Between-Subjects Factors

		Value Label	N
JNS_KORO	1.00	begog	12
	2.00	hijau	12
KONS_GRM	1.00	50%	12
	2.00	65%	12

Levene's Test of Equality of Error Variances^a

Dependent Variable: AKTIVTS

F	df1	df2	Sig.
1.865	3	20	.168

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Design: Intercept+JNS_KORO+KONS_GRM+JNS_KORO * KONS_GRM

Tests of Between-Subjects Effects

Dependent Variable: AKTIVTS

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	6371.384 ^a	3	2123.795	25.905	.000
Intercept	718807.825	1	718807.825	8767.807	.000
JNS_KORO	254.860	1	254.860	3.109	.093
KONS_GRM	5361.519	1	5361.519	65.398	.000
JNS_KORO * KONS_GRM	755.005	1	755.005	9.209	.007
Error	1639.653	20	81.983		
Total	726818.862	24			
Corrected Total	8011.037	23			

a. R Squared = .795 (Adjusted R Squared = .765)

LAMPIRAN 12

Hasil Anova Dua Arah Aktivitas Enzim Amilase dengan Penambahan Garam Amonium Sulfat 50 %

Univariate Analysis of Variance

Between-Subjects Factors

		Value Label	N
JNS_KORO	1.00	begog	12
	2.00	hijau	12
SUHU	1.00	60 C	12
	2.00	75 C	12

Levene's Test of Equality of Error Variances^a

Dependent Variable: AKTIVTS

F	df1	df2	Sig.
4.067	3	20	.021

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Design: Intercept+JNS_KORO+SUHU+JNS_KORO * SUHU

Tests of Between-Subjects Effects

Dependent Variable: AKTIVTS

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	41233.916 ^a	3	13744.639	49.327	.000
Intercept	1052880.435	1	1052880.435	3778.578	.000
JNS_KORO	13685.867	1	13685.867	49.116	.000
SUHU	11035.897	1	11035.897	39.606	.000
JNS_KORO * SUHU	16512.152	1	16512.152	59.259	.000
Error	5572.892	20	278.645		
Total	1099687.243	24			
Corrected Total	46806.808	23			

a. R Squared = .881 (Adjusted R Squared = .863)

LAMPIRAN 13

Hasil Anova Dua Arah Aktivitas Enzim Amilase dengan Penambahan Garam Amonium Sulfat 65 %

Univariate Analysis of Variance

Between-Subjects Factors

		Value Label	N
JNS_KORO	1.00	begog	12
	2.00	hijau	12
SUHU	1.00	60 C	12
	2.00	75 C	12

Levene's Test of Equality of Error Variances^a

Dependent Variable: AKTIVTS

F	df1	df2	Sig.
3.656	3	20	.030

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Design: Intercept+JNS_KORO+SUHU+JNS_KORO * SUHU

Tests of Between-Subjects Effects

Dependent Variable: AKTIVTS

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	72882.982 ^a	3	24294.327	121.802	.000
Intercept	741487.151	1	741487.151	3717.525	.000
JNS_KORO	40499.786	1	40499.786	203.050	.000
SUHU	7481.130	1	7481.130	37.507	.000
JNS_KORO * SUHU	24902.066	1	24902.066	124.849	.000
Error	3989.144	20	199.457		
Total	818359.277	24			
Corrected Total	76872.126	23			

a. R Squared = .948 (Adjusted R Squared = .940)