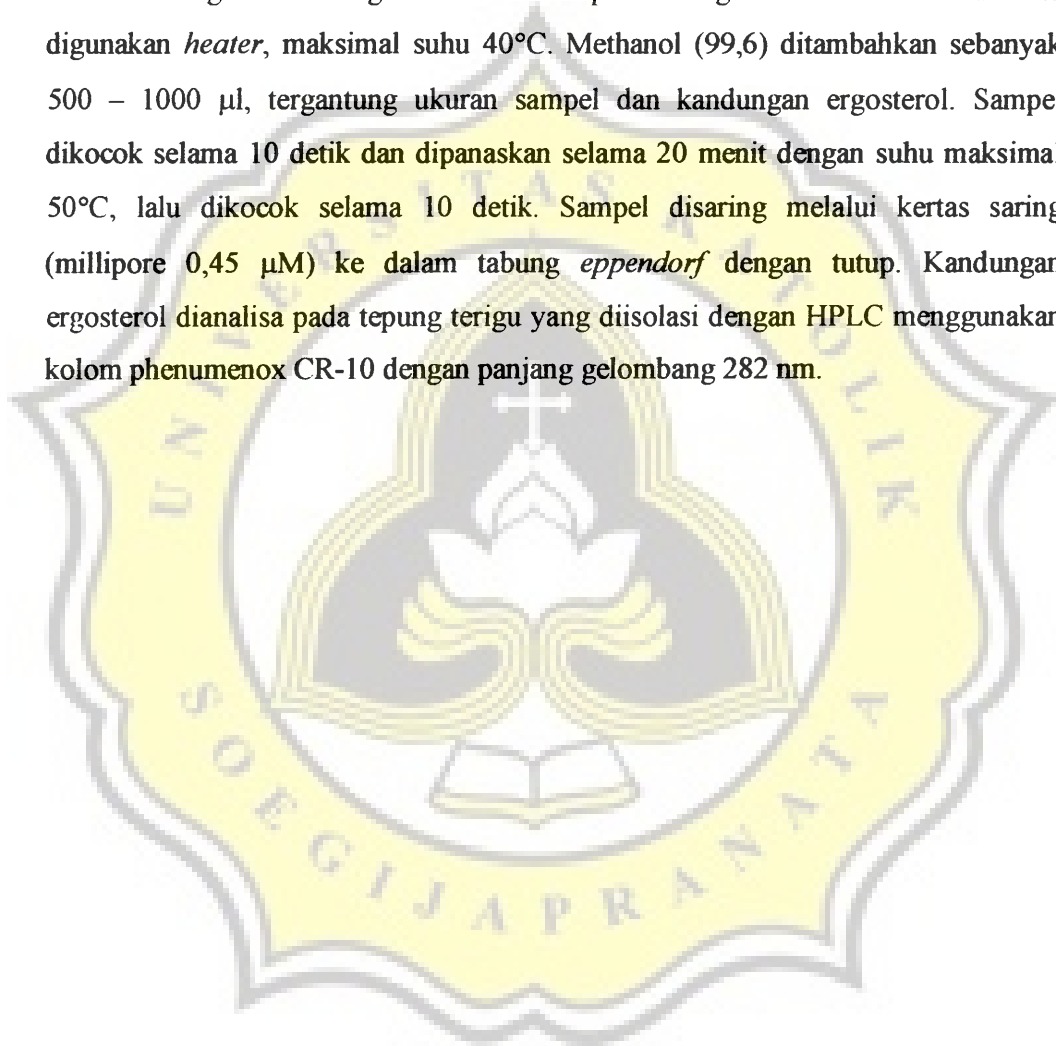


## LAMPIRAN I

Ekstraksi ergosterol yang dilakukan di ruang asam :

Sampel ditambahkan 4 ml n-pentane (*pro-analysis* 99%) ke dalam tabung dengan endapan tepung. Setelah tabung ditutup, tabung dikocok secara menyeluruh selama 20 menit dalam vortex. Fase pentane dikumpulkan dengan pipet Pasteur dan sampel dituang ke dalam tabung yang baru (10 ml). Tahapan ekstraksi dalam ruang asam diulangi sekali lagi. Pentane diuapkan dengan *waterbath*. Selain itu digunakan *heater*, maksimal suhu 40°C. Methanol (99,6) ditambahkan sebanyak 500 – 1000  $\mu$ l, tergantung ukuran sampel dan kandungan ergosterol. Sampel dikocok selama 10 detik dan dipanaskan selama 20 menit dengan suhu maksimal 50°C, lalu dikocok selama 10 detik. Sampel disaring melalui kertas saring (millipore 0,45  $\mu$ M) ke dalam tabung *eppendorf* dengan tutup. Kandungan ergosterol dianalisa pada tepung terigu yang diisolasi dengan HPLC menggunakan kolom phenumenox CR-10 dengan panjang gelombang 282 nm.



## LAMPIRAN 2

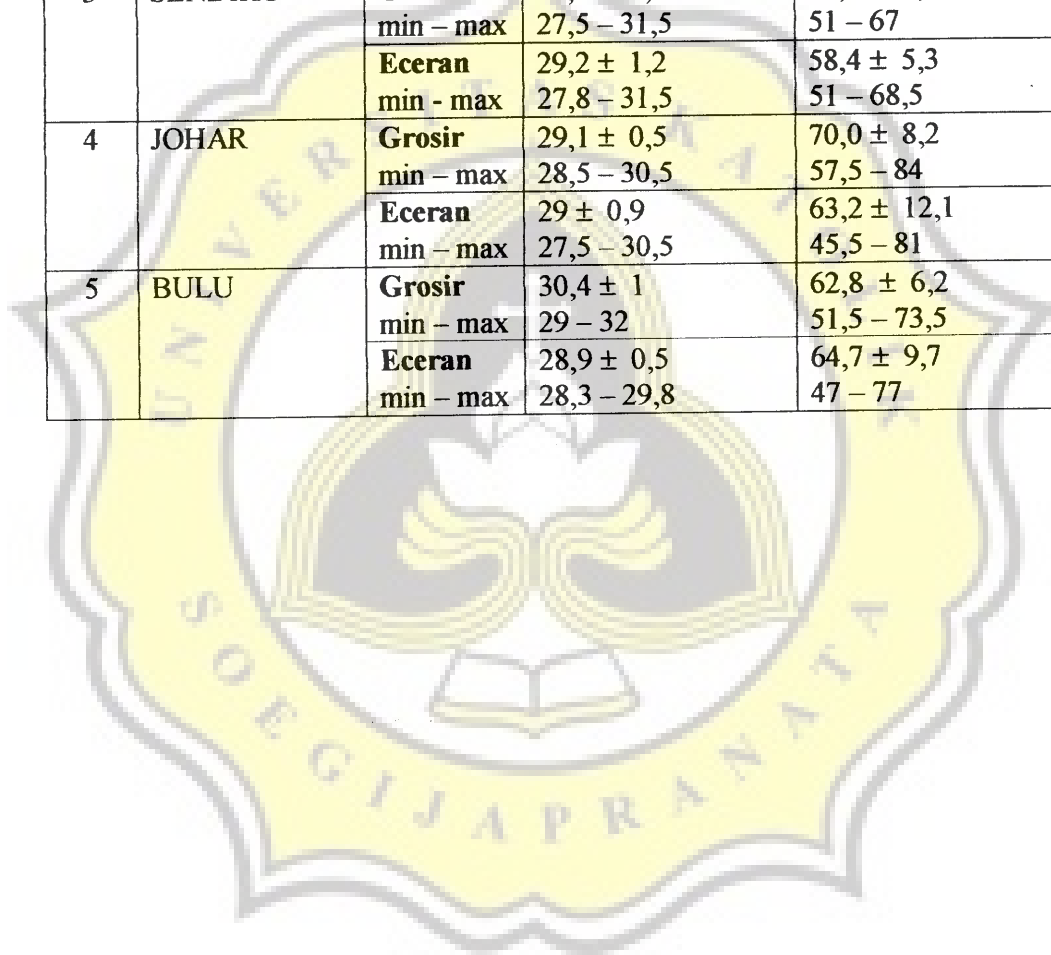
### Suhu dan kelembaban Ruang Penyimpanan

#### T0 (Minggu pertama)

No	Pasar	Skala	Suhu (°C)	RH (%)
1	GAYAM SARI	<b>Grosir</b> min - max	$30,1 \pm 0,6$ 29 – 31,3	$65,9 \pm 5,3$ 54 – 74
		<b>Eceran</b> min - max	$30,3 \pm 0,8$ 29,3 – 32	$68,6 \pm 4,2$ 59 – 78
2	KARANG AYU	<b>Grosir</b> min - max	$30,6 \pm 0,6$ 29,3 – 31,5	$66 \pm 5,7$ 56 – 77,5
		<b>Eceran</b> min - max	$30,4 \pm 0,9$ 29 – 32,5	$72,5 \pm 4,6$ 62 – 81
3	SENDIKO	<b>Grosir</b> min - max	$29,9 \pm 0,9$ 28,5 – 31,5	$68,8 \pm 5,8$ 56,5 – 81
		<b>Eceran</b> min - max	$30,1 \pm 0,9$ 28,5 – 31,5	$67,8 \pm 6,4$ 56,5 – 81
4	JOHAR	<b>Grosir</b> min - max	$29,5 \pm 0,9$ 27,3 – 30,8	$74,2 \pm 6,8$ 64 – 84,5
		<b>Eceran</b> min - max	$29,6 \pm 0,8$ 28,3 – 31,3	$68,3 \pm 9,1$ 57,5 – 84
5	BULU	<b>Grosir</b> min - max	$29,6 \pm 1,4$ 26,8 – 31,8	$70,5 \pm 7,0$ 57,5 – 81
		<b>Eceran</b> min - max	$29,1 \pm 0,8$ 27,8 – 30,3	$73,5 \pm 9,1$ 55,5 – 85

**T1 (Dua minggu Sesudahnya)**

No	Pasar	Skala	Suhu (°C)	RH (%)
1	GAYAM SARI	<b>Grosir</b>	29,5 ± 0,9	61,2 ± 9,03
		min - max	27,5 - 31	47 - 77,5
		<b>Eceran</b>	29,5 ± 1,5	66,2 ± 10,2
		min - max	27,5 - 32	48 - 78
2	KARANG AYU	<b>Grosir</b>	30,6 ± 1,4	58,6 ± 8,6
		min - max	28,5 - 34	47 - 78
		<b>Eceran</b>	29,5 ± 0,8	65,3 ± 5,8
		min - max	28,3 - 31,3	54 - 77,5
3	SENDIKO	<b>Grosir</b>	29,0 ± 1,2	58,1 ± 4,9
		min - max	27,5 - 31,5	51 - 67
		<b>Eceran</b>	29,2 ± 1,2	58,4 ± 5,3
		min - max	27,8 - 31,5	51 - 68,5
4	JOHAR	<b>Grosir</b>	29,1 ± 0,5	70,0 ± 8,2
		min - max	28,5 - 30,5	57,5 - 84
		<b>Eceran</b>	29 ± 0,9	63,2 ± 12,1
		min - max	27,5 - 30,5	45,5 - 81
5	BULU	<b>Grosir</b>	30,4 ± 1	62,8 ± 6,2
		min - max	29 - 32	51,5 - 73,5
		<b>Eceran</b>	28,9 ± 0,5	64,7 ± 9,7
		min - max	28,3 - 29,8	47 - 77



**LAMPIRAN 3**  
Kadar Ergosterol

**Kadar ergosterol pada Minggu Pertama (To)**

Nama Pasar	Skala	Kadar Ergosterol (ppm)
Pasar Gayam Sari	Grosir	1. 1,27
		2. 1,03
		3. 0,9
	Eceran	1. 0,95
		2. 0,98
		3. 0,73
Pasar Karang Ayu	Grosir	1. 1,07
		2. 1,13
		3. 0,94
	Eceran	1. 0,68
		2. 0,87
		3. 0,95
Pasar Johar	Grosir	1. 0,75
		2. 1,39
		3. 0,95
	Eceran	1. 1,08
		2. 0,66
		3. 0,73
Pasar Bulu	Grosir	1. 1,58
		2. 1,17
		3. 2,23
	Eceran	1. 0,91
		2. 0,89
		3. 0,77
Pasar Sendiko	Grosir	1. 0,97
		2. 0,78
		3. 0,73
	Eceran	1. 0,62
		2. 0,8
		3. 0,87

Ket : Hasil Chromatogram Pengukuran Kadar Ergosterol dengan HPLC

Kadar Ergosterol pada dua minggu sesudahnya (T1)

Nama Pasar	Skala	Kadar Ergosterol (ppm)
Pasar Gayam Sari	Grosir	4. 0,94
		5. 0,84
		6. 0,5
	Eceran	4. 0,74
		5. 0,53
		6. 0,63
Pasar Karang Ayu	Grosir	4. 0,84
		5. 0,67
		6. 0,91
	Eceran	4. 0,76
		5. 0,7
		6. 0,63
Pasar Johar	Grosir	4. 0,77
		5. 0,85
		6. 1,09
	Eceran	4. 0,96
		5. 0,96
		6. 0,82
Pasar Bulu	Grosir	1. 0,89
		2. 1,04
		3. 1,22
	Eceran	4. 0,83
		5. 0,93
		6. 0,83
Pasar Sendiko	Grosir	4. 1,68
		5. 1,23
		6. 1,13
	Eceran	4. 1,85
		5. 1,52
		6. 0,96

Ket : Hasil Chromatogram Pengukuran Kadar Ergosterol dengan HPLC

**LAMPIRAN 4**

Kadar Ergosterol berdasarkan Lama Penyimpanan

**T-Test**

Group Statistics

WAKTU	N	Mean	Std. Deviation	Std. Error Mean
ERGOT To	90	,9791687	,4027475	4,25E-02
T1	90	,9311727	,3637145	3,83E-02

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
									Lower	Upper
ERGOT	Equal variances assumed	,027	,870	,839	178	,403	4,800E-02	5,720E-02	-6,5E-02	,1608789
	Equal variances not assumed			,839	176,182	,403	4,800E-02	5,720E-02	-6,5E-02	,1608868

## LAMPIRAN 5

Kadar Ergosterol Tepung Terigu terhadap Skala Penjualan dan Lokasi

### Univariate Analysis of Variance

#### Warnings

Post hoc tests are not performed for SKALA because there are fewer than three groups.

#### Between-Subjects Factors

	Value Label	N
SKALA	1,00 Eceran	90
	2,00 Grosir	90
LOKASI	1,00 Gayam Sari	36
	2,00 Karang Ayu	36
	3,00 Sendiko	36
	4,00 Johar	36
	5,00 Bulu	36

#### Levene's Test of Equality of Error Variances

Dependent Variable: ERGOT

F	df1	df2	Sig.
6,069	9	170	,000

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

a. Design: Intercept+SKALA+LOKASI+SKALA \* LOKASI

#### Tests of Between-Subjects Effects

Dependent Variable: ERGOT

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	5,257 <sup>a</sup>	9	,584	4,728	,000
Intercept	166,251	1	166,251	1345,544	,000
SKALA	1,428	1	1,428	11,554	,001
LOKASI	2,517	4	,629	5,092	,001
SKALA * LOKASI	1,313	4	,328	2,656	,035
Error	21,005	170	,124		
Total	192,513	180			
Corrected Total	26,262	179			

a. R Squared = ,200 (Adjusted R Squared = ,158)

## Estimated Marginal Means

### 1. Grand Mean

Dependent Variable: ERGOT

Mean	Std. Error	95% Confidence Interval	
		Lower Bound	Upper Bound
,961	,026	,909	1,013

### 2. SKALA

Dependent Variable: ERGOT

SKALA	Mean	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
Eceran	,872	,037	,799	,945
Grosir	1,050	,037	,977	1,123

### 3. LOKASI

Dependent Variable: ERGOT

LOKASI	Mean	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
Gayam Sari	,838	,059	,722	,953
Karang Ayu	,845	,059	,730	,961
Sendiko	1,095	,059	,979	1,211
Johar	,919	,059	,803	1,035
Bulu	1,108	,059	,992	1,224

### 4. LOKASI \* SKALA

Dependent Variable: ERGOT

LOKASI	SKALA	Mean	Std. Error	95% Confidence Interval	
				Lower Bound	Upper Bound
Gayam Sari	Eceran	,761	,083	,597	,924
	Grosir	,915	,083	,751	1,078
Karang Ayu	Eceran	,765	,083	,601	,928
	Grosir	,926	,083	,762	1,089
Sendiko	Eceran	1,104	,083	,940	1,267
	Grosir	1,086	,083	,923	1,250
Johar	Eceran	,870	,083	,707	1,034
	Grosir	,968	,083	,804	1,132
Bulu	Eceran	,861	,083	,697	1,024
	Grosir	1,355	,083	1,192	1,519



## Post Hoc Tests

### LOKASI Homogeneous Subsets

ERGOT

Duncan<sup>a,b</sup>

LOKASI	N	Subset	
		1	2
Gayam Sari	36	,8378394	
Karang Ayu	36	,8452336	
Johar	36	,9191033	
Sendiko	36		1,0951032
Bulu	36		1,1079707
Sig.		,359	,877

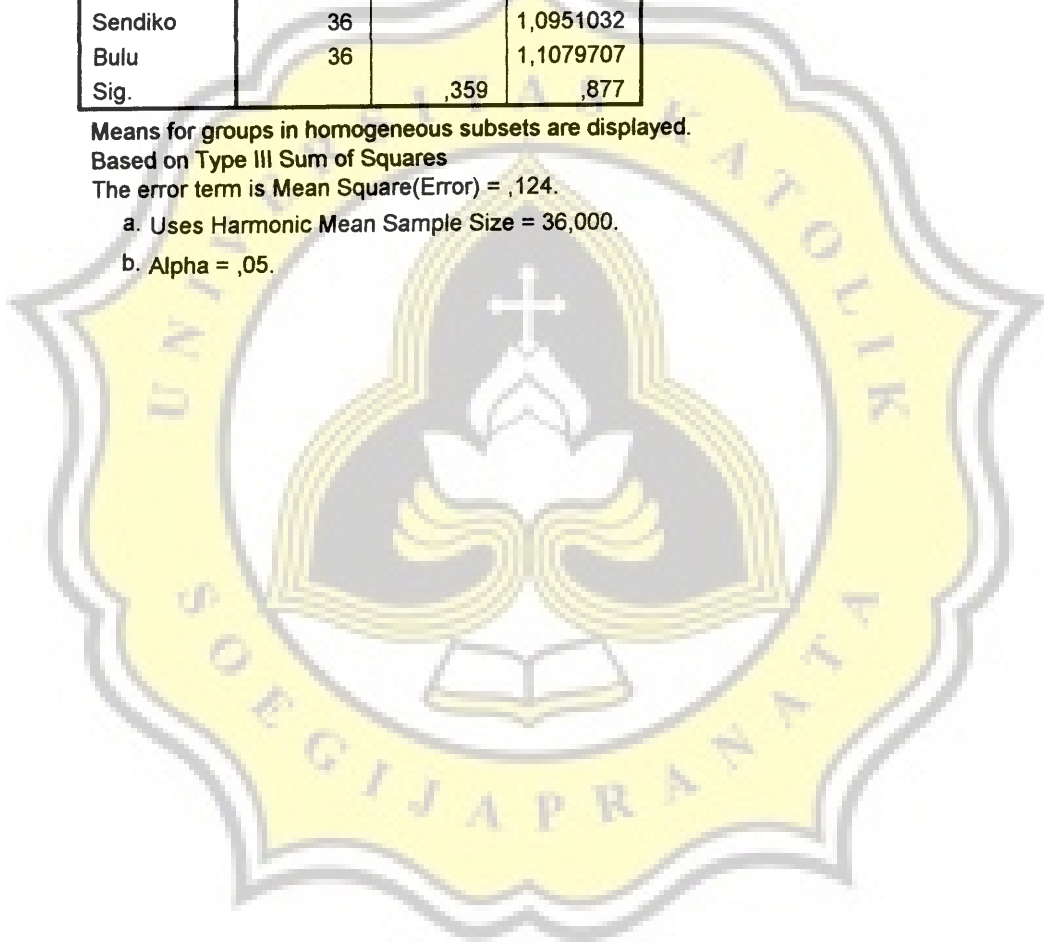
Means for groups in homogeneous subsets are displayed.

Based on Type III Sum of Squares

The error term is Mean Square(Error) = ,124.

a. Uses Harmonic Mean Sample Size = 36,000.

b. Alpha = ,05.



## LAMPIRAN 6

### Hubungan Kondisi Penyimpanan dengan Kadar Ergosterol

#### Regression

##### Variables Entered/Removed<sup>a</sup>

Model	Variables Entered	Variables Removed	Method
1	ALAS, S.MTHR, SEKAT, J.DING <sup>a</sup>		Enter

a. All requested variables entered.

b. Dependent Variable: ERGOT

##### Model Summary<sup>b</sup>

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	,268 <sup>a</sup>	,072	,051	,3730179

a. Predictors: (Constant), ALAS, S.MTHR, SEKAT, J.DING

b. Dependent Variable: ERGOT

##### ANOVA<sup>b</sup>

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	1,890	4	,472	3,396	,011 <sup>a</sup>
	Residual	24,350	175	,139		
	Total	26,240	179			

a. Predictors: (Constant), ALAS, S.MTHR, SEKAT, J.DING

b. Dependent Variable: ERGOT

**Coefficients<sup>a</sup>**

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	,673	,120		5,615	,000
	SEKAT	-,104	,059	-,135	-1,772	,078
	S.MTHR	-4,07E-02	,085	-,036	-,481	,631
	J.DING	,141	,074	,148	1,895	,060
	ALAS	,266	,096	,209	2,769	,006

a. Dependent Variable: ERGOT

**Casewise Diagnostics<sup>a</sup>**

Case Number	Std. Residual	ERGOT
83	3,860	2,51985
89	6,068	3,30269
131	3,515	2,28721

a. Dependent Variable: ERGOT

**Residuals Statistics<sup>a</sup>**

	Minimum	Maximum	Mean	Std. Deviation	N
Predicted Value	,7099926	1,0798843	,9607303	,1027510	180
Residual	-,6372947	2,2635398	-5,4E-16	,3688265	180
Std. Predicted Value	-2,440	1,160	,000	1,000	180
Std. Residual	-1,708	6,068	,000	,989	180

a. Dependent Variable: ERGOT

## LAMPIRAN 7

### Perhitungan Standar Ergosterol

X	X <sup>2</sup>	Y	Y <sup>2</sup>	XY
10	100	45439	2064702721	454390
20	400	817436	6,682016141 <sup>11</sup>	16348720
50	2500	1170894	1,370992759 <sup>12</sup>	58544700
Σ=80	3000	2033769	2,04125907612	75347810

$$N = 3$$

$$X = 80/3 = 26,67$$

$$Y = 2033769/3 = 677923$$

Perhitungan :

$$Y = a + bX$$

$$Y = 28183,68 + 24362,18X$$

$$a = 28183,68$$

$$b = \frac{(xy - (xy / n))}{(x^2 - (x^2 / n))}$$

$$= \frac{75347810 - (80 \times 2033769 / 3)}{(3000 - (80^2 / 3))}$$

$$= 2436,179$$

## LAMPIRAN 8

### Perhitungan Hasil Analisis Regresi Linear Berganda

#### Data

$$\sum X_1 = 102$$

$$\sum X_2 = 24$$

$$\sum X_3 = 144$$

$$\sum X_4 = 162$$

$$\sum Y = 172,9314$$

$$\sum X_1 Y = 93,22714$$

$$\sum X_2 Y = 23,69224$$

$$\sum X_3 Y = 142,2542$$

$$\sum X_4 Y = 158,9041$$

#### Rumus :

$$Y = b_0 + b_1 X_1 + b_2 X_2 + b_3 X_3 + b_4 X_4$$
$$= 0,693 - 0,104 X_1 - 0,04 X_2 + 0,141 X_3 + 0,266 X_4$$

$$(P+q+r+s) = (b_1 \sum X_1 Y + b_2 \sum X_2 Y + b_3 \sum X_3 Y + b_4 \sum X_4 Y)$$

$$b_n \sum X_n Y = b_n \left\{ \sum X_n Y - \frac{(\sum X_1)(\sum Y)}{n} \right\}$$

$$p = 0,4958$$

$$q = -0,02$$

$$r = 2774,90$$

$$s = 0,8687$$

$$SR_1 (\text{Sekat}) = \frac{p}{P+q+r+s} \times 100\% = 0,02\%$$

$$SR_2 (\text{Sinar matahari}) = \frac{q}{P+q+r+s} \times 100\% = 9,14^{-6}\%$$

$$SR_3 (\text{Jenis dinding}) = \frac{r}{P+q+r+s} \times 100\% = 99,9\%$$

$$SR_4 (\text{Alas}) = \frac{s}{P+q+r+s} \times 100\% = 0,03\%$$

## LAMPIRAN 9

Hasil Analisis Korelasi antara Suhu, Rh dan Kadar Ergosterol

### Correlations

Correlations

	SKALA	LOKASI	ULANGAN	SUHU	RH	ERGOT
SKALA						
Pearson Correlation	1,000	,000	,000	,020	-,082	-,075
Sig. (2-tailed)		1,000	1,000	,787	,273	,319
N	180	180	180	180	180	180
LOKASI						
Pearson Correlation	,000	1,000	,000	-,057	,150*	-,106
Sig. (2-tailed)	1,000		1,000	,451	,044	,158
N	180	180	180	180	180	180
ULANGAN						
Pearson Correlation	,000	,000	1,000	,001	,000	,000
Sig. (2-tailed)	1,000	1,000		,994	1,000	1,000
N	180	180	180	180	180	180
SUHU						
Pearson Correlation	,020	-,057	,001	1,000	,032	,108
Sig. (2-tailed)	,787	,451	,994		,667	,149
N	180	180	180	180	180	180
RH						
Pearson Correlation	-,082	,150*	,000	,032	1,000	,051
Sig. (2-tailed)	,273	,044	1,000	,667		,495
N	180	180	180	180	180	180
ERGOT						
Pearson Correlation	-,075	-,106	,000	,108	,051	1,000
Sig. (2-tailed)	,319	,158	1,000	,149	,495	
N	180	180	180	180	180	180

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

## LAMPIRAN 10

### Lembar Pengambilan Data Sampling

#### QUISIONER

(Lembar Pengambilan Data Sampling)

1. Hari/Tanggal :
2. Nama Toko :
3. Skala / Volume Penjualan :
4. Jenis Tepung :

#### A. Kondisi Fisik Tempat Usaha

Kondisi Fsik Usaha	Ket		Ket
	Ada	Tidak Ada	
1. Sekat (Sinar matahari)			
2. Sinar Matahari			
3. Jenis Dinding			
4. Alas			

## LAMPIRAN 11

Perhitungan Data Kualitatif Kondisi Fisik Pasar dengan “*Dummy Variable*”

Nama Pasar	Skala Pedagang	Data Kualitatif Kondisi Fisik Pasar			
		Sekat	Sinar Matahari	Jenis Dinding	Alas
Gayam Sari	Grosir 1	0	0	1	1
	Grosir 2	0	0	1	1
	Grosir 3	0	0	1	1
	Eceran 1	1	0	1	0
	Eceran 2	1	0	0	1
	Eceran 3	1	0	1	1
Karang Ayu	Grosir 1	0	0	1	1
	Grosir 2	0	1	1	1
	Grosir 3	0	0	1	0
	Eceran 1	1	0	0	1
	Eceran 2	0	0	1	0
	Eceran 3	1	1	1	1
Sendiko	Grosir 1	1	0	1	1
	Grosir 2	0	0	1	1
	Grosir 3	0	0	1	1
	Eceran 1	1	0	1	1
	Eceran 2	1	0	1	1
	Eceran 3	1	0	1	1
Johar	Grosir 1	0	0	0	1
	Grosir 2	1	0	1	1
	Grosir 3	1	0	1	1
	Eceran 1	1	0	0	1
	Eceran 2	1	0	0	1
	Eceran 3	1	0	0	1
Bulu	Grosir 1	0	0	1	1
	Grosir 2	0	1	1	1
	Grosir 3	0	0	1	1
	Eceran 1	1	0	1	1
	Eceran 2	1	0	1	1
	Eceran 3	1	1	1	1

Ket : Sekat → 0 = Tidak Ada ; 1 = Ada  
 Sinar Matahari → 0 = Tidak Ada ; 1 = Ada  
 Jenis Dinding → 0 = Papan (kayu) ; 1 = Tembok  
 Alas yang Digunakan → 0 = Tidak Ada ; 1 = Ada