

DAFTAR LAMPIRAN

Lampiran 1

Hasil Pengukuran Diameter Zona Hambat Ekstrak Lada Hitam

Konsentrasi	Zona Hambat Ekstrak Lada Hitam			Mean
	(mm)			
	I	II	III	
0%	0	0	0	0
6.25 %	0	0	0	0
12.5%	0	0	0	0
25%	0	0	0	0
50%	0	0	0	0
100%	7,5	7,7	7,15	7,45

Hasil Pengukuran Diameter Zona Hambat Ekstrak Lada Putih

Konsentrasi	Zona Hambat Ekstrak Lada Putih			Mean
	(mm)			
	I	II	III	
0%	0	0	0	0
6.25 %	0	0	0	0
12.5%	7,4	7,4	7,25	7,35
25%	8,95	8,75	8,4	8,7
50%	10,6	10,1	9,85	10,18
100%	12,35	12,35	11,8	12,17



Lampiran 2

Hasil Uji Statistik

Uji Normalitas (Lada Hitam)

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Konsentrasi	.137	21	.200*	.963	21	.576
Zona Hambat	.135	21	.234	.971	21	.584

*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

Correlations (Lada Hitam)

Correlations

		Konsentrasi	Zona Hambat
Konsentrasi	Pearson Correlation	1	.882**
	Sig. (2-tailed)	.	.000
	N	18	18
Zona Hambat	Pearson Correlation	.882**	1
	Sig. (2-tailed)	.000	.
	N	18	18

** . Correlation is significant at the 0.01 level (2-tailed).

Regression (Lada Hitam)

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.882 ^a	.778	.764	1.38852

a. Predictors: (Constant), Konsentrasi

ANOVA^b

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	108.064	1	108.064	56.050	.000 ^a
	Residual	30.848	16	1.928		
	Total	138.911	17			

a. Predictors: (Constant), Konsentrasi

b. Dependent Variable: Zona Hambat



Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	-1.064	.449		-2.368	.031
	Konsentrasi	.071	.010	.882	7.487	.000

a. Dependent Variable: Zona Hambat

Oneway (Lada Hitam)

Descriptives

Zona Hambat									
	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum	
					Lower Bound	Upper Bound			
K Neg	3	.0000	.00000	.00000	.0000	.0000	.00	.00	
K Pos	3	17.9833	.05774	.03333	17.8399	18.1268	17.95	18.05	
6.25	3	.0000	.00000	.00000	.0000	.0000	.00	.00	
12.5	3	.0000	.00000	.00000	.0000	.0000	.00	.00	
25	3	.0000	.00000	.00000	.0000	.0000	.00	.00	
50	3	.0000	.00000	.00000	.0000	.0000	.00	.00	
100	3	7.4500	.27839	.16073	6.7584	8.1416	7.15	7.70	
Total	21	3.6333	6.55609	1.43066	.6490	6.6176	.00	18.05	

Test of Homogeneity of Variances

Zona Hambat

Levene Statistic	df 1	df 2	Sig.
2.571	6	14	.083

ANOVA

Zona Hambat

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	859.485	6	143.248	12404.938	.000
Within Groups	.162	14	.012		
Total	859.647	20			



Post Hoc Tests (Lada Hitam)

Multiple Comparisons

Dependent Variable: Zona Hambat

Tukey HSD

(I) Kelompok	(J) Kelompok	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
K Neg	K Pos	-17.98333*	.08774	.000	-18.2829	-17.6837
	6.25	.00000	.08774	1.000	-.2996	.2996
	12.5	.00000	.08774	1.000	-.2996	.2996
	25	.00000	.08774	1.000	-.2996	.2996
	50	.00000	.08774	1.000	-.2996	.2996
K Pos	K Neg	17.98333*	.08774	.000	17.6837	18.2829
	6.25	17.98333*	.08774	.000	17.6837	18.2829
	12.5	17.98333*	.08774	.000	17.6837	18.2829
	25	17.98333*	.08774	.000	17.6837	18.2829
	50	17.98333*	.08774	.000	17.6837	18.2829
6.25	K Neg	.00000	.08774	1.000	-.2996	.2996
	K Pos	-17.98333*	.08774	.000	-18.2829	-17.6837
	12.5	.00000	.08774	1.000	-.2996	.2996
	25	.00000	.08774	1.000	-.2996	.2996
	50	.00000	.08774	1.000	-.2996	.2996
12.5	K Neg	.00000	.08774	1.000	-.2996	.2996
	K Pos	-17.98333*	.08774	.000	-18.2829	-17.6837
	6.25	.00000	.08774	1.000	-.2996	.2996
	25	.00000	.08774	1.000	-.2996	.2996
	50	.00000	.08774	1.000	-.2996	.2996
25	K Neg	.00000	.08774	1.000	-.2996	.2996
	K Pos	-17.98333*	.08774	.000	-18.2829	-17.6837
	6.25	.00000	.08774	1.000	-.2996	.2996
	12.5	.00000	.08774	1.000	-.2996	.2996
	50	.00000	.08774	1.000	-.2996	.2996
50	K Neg	.00000	.08774	1.000	-.2996	.2996
	K Pos	-17.98333*	.08774	.000	-18.2829	-17.6837
	6.25	.00000	.08774	1.000	-.2996	.2996
	12.5	.00000	.08774	1.000	-.2996	.2996
	25	.00000	.08774	1.000	-.2996	.2996
100	K Neg	7.45000*	.08774	.000	7.1504	7.7496
	K Pos	-10.53333*	.08774	.000	-10.8329	-10.2337
	6.25	7.45000*	.08774	.000	7.1504	7.7496
	12.5	7.45000*	.08774	.000	7.1504	7.7496
	25	7.45000*	.08774	.000	7.1504	7.7496
	50	7.45000*	.08774	.000	7.1504	7.7496

*. The mean difference is significant at the .05 level.

Uji Normalitas (Lada Putih)

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Konsentrasi	.088	21	.200*	.984	21	.968
Zona Hambat	.117	21	.200*	.963	21	.581

*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

Correlations (Lada Putih)

Correlations

		Konsentrasi	Zona Hambat
Konsentrasi	Pearson Correlation	1	.812**
	Sig. (2-tailed)	.	.000
	N	18	18
Zona Hambat	Pearson Correlation	.812**	1
	Sig. (2-tailed)	.000	.
	N	18	18

** . Correlation is significant at the 0.01 level (2-tailed).

Regression (Lada Putih)

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.812 ^a	.659	.637	2.949

a. Predictors: (Constant), Konsentrasi

ANOVA^b

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	268.562	1	268.562	30.882	.000 ^a
	Residual	139.143	16	8.696		
	Total	407.705	17			

a. Predictors: (Constant), Konsentrasi

b. Dependent Variable: Zona Hambat



Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	2.765	.954		2.897	.011
	Konsentrasi	.113	.020	.812	5.557	.000

a. Dependent Variable: Zona Hambat

Oneway (Lada Putih)

Descriptives

Zona Hambat

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
K Neg	3	.00	.000	.000	.00	.00	0	0
K Pos	3	17.28	.437	.252	16.20	18.37	17	18
6.25	3	.00	.000	.000	.00	.00	0	0
12.5	3	7.35	.087	.050	7.13	7.57	7	7
25	3	8.70	.278	.161	8.01	9.39	8	9
50	3	10.18	.382	.220	9.23	11.13	10	11
100	3	12.17	.318	.183	11.38	12.96	12	12
Total	21	7.95	5.969	1.303	5.24	10.67	0	18

Test of Homogeneity of Variances

Zona Hambat

Levene Statistic	df 1	df 2	Sig.
4.021	6	14	.015

Test of Homogeneity of Variances

Zona Hambat

Levene Statistic	df 1	df 2	Sig.
2.635	6	14	.063

ANOVA

Zona Hambat

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	711.620	6	118.603	1588.943	.000
Within Groups	1.045	14	.075		
Total	712.665	20			



Post Hoc Tests (Lada Putih)

Multiple Comparisons

Dependent Variable: Zona Hambat

Tukey HSD

(I) Kelompok	(J) Kelompok	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
K Neg	K Pos	-17.283*	.223	.000	-18.05	-16.52
	6.25	.000	.223	1.000	-.76	.76
	12.5	-7.350*	.223	.000	-8.11	-6.59
	25	-8.700*	.223	.000	-9.46	-7.94
	50	-10.183*	.223	.000	-10.95	-9.42
	100	-12.167*	.223	.000	-12.93	-11.40
K Pos	K Neg	17.283*	.223	.000	16.52	18.05
	6.25	17.283*	.223	.000	16.52	18.05
	12.5	9.933*	.223	.000	9.17	10.70
	25	8.583*	.223	.000	7.82	9.35
	50	7.100*	.223	.000	6.34	7.86
	100	5.117*	.223	.000	4.35	5.88
6.25	K Neg	.000	.223	1.000	-.76	.76
	K Pos	-17.283*	.223	.000	-18.05	-16.52
	12.5	-7.350*	.223	.000	-8.11	-6.59
	25	-8.700*	.223	.000	-9.46	-7.94
	50	-10.183*	.223	.000	-10.95	-9.42
	100	-12.167*	.223	.000	-12.93	-11.40
12.5	K Neg	7.350*	.223	.000	6.59	8.11
	K Pos	-9.933*	.223	.000	-10.70	-9.17
	6.25	7.350*	.223	.000	6.59	8.11
	25	-1.350*	.223	.000	-2.11	-.59
	50	-2.833*	.223	.000	-3.60	-2.07
	100	-4.817*	.223	.000	-5.58	-4.05
25	K Neg	8.700*	.223	.000	7.94	9.46
	K Pos	-8.583*	.223	.000	-9.35	-7.82
	6.25	8.700*	.223	.000	7.94	9.46
	12.5	1.350*	.223	.000	.59	2.11
	50	-1.483*	.223	.000	-2.25	-.72
	100	-3.467*	.223	.000	-4.23	-2.70
50	K Neg	10.183*	.223	.000	9.42	10.95
	K Pos	-7.100*	.223	.000	-7.86	-6.34
	6.25	10.183*	.223	.000	9.42	10.95
	12.5	2.833*	.223	.000	2.07	3.60
	25	1.483*	.223	.000	.72	2.25
	100	-1.983*	.223	.000	-2.75	-1.22
100	K Neg	12.167*	.223	.000	11.40	12.93
	K Pos	-5.117*	.223	.000	-5.88	-4.35
	6.25	12.167*	.223	.000	11.40	12.93
	12.5	4.817*	.223	.000	4.05	5.58
	25	3.467*	.223	.000	2.70	4.23
	50	1.983*	.223	.000	1.22	2.75

*. The mean difference is significant at the .05 lev el.



Uji T

Konsentrasi 12,5%

Independent Samples Test

		t-test for Equality of Means		
		Sig. (2-tailed)	Mean Difference	Std. Error Difference
zoma hambat	Equal variances assumed	,000	-7,35000	,03536
	Equal variances not assumed	,000	-7,35000	,03536

Konsentrasi 25%

Independent Samples Test

		t-test for Equality of Means		
		Sig. (2-tailed)	Mean Difference	Std. Error Difference
zoma hambat	Equal variances assumed	,000	-8,70000	,11365
	Equal variances not assumed	,000	-8,70000	,11365

Konsentrasi 50%

Independent Samples Test

		t-test for Equality of Means		
		Sig. (2-tailed)	Mean Difference	Std. Error Difference
zoma hambat	Equal variances assumed	,000	-10,18250	,15590
	Equal variances not assumed	,000	-10,18250	,15590

Konsentrasi 100%

Independent Samples Test

		t-test for Equality of Means		
		Sig. (2-tailed)	Mean Difference	Std. Error Difference
zoma hambat	Equal variances assumed	,000	-4,71750	,17240
	Equal variances not assumed	,000	-4,71750	,17240



Lampiran 3

Foto Bahan Penelitian



Bahan pewarnaan gram



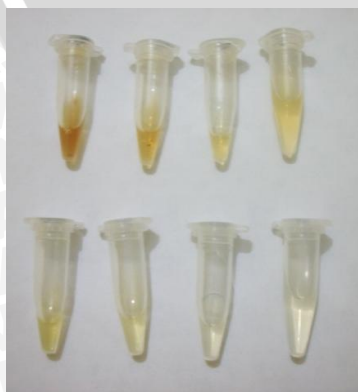
H₂O₂ 3% untuk tes katalase



Biakan *Streptococcus mutans*



Bubuk Lada Hitam dan Lada Putih

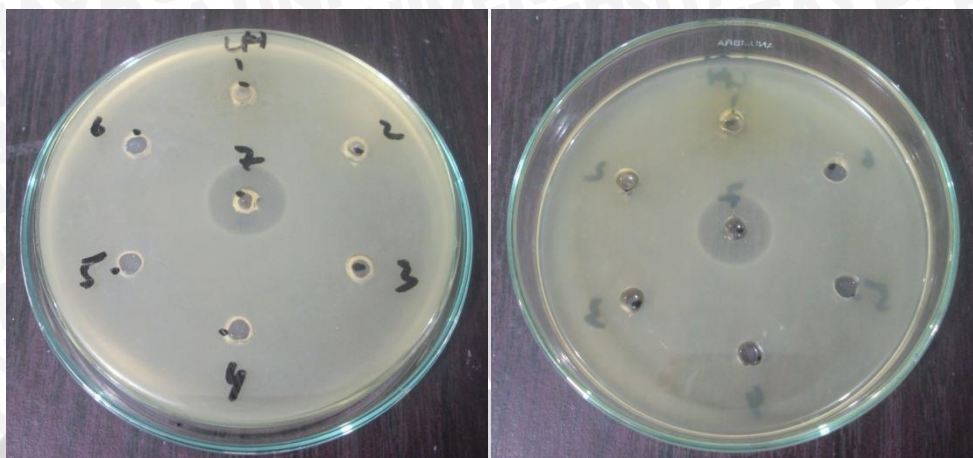


Pengenceran ekstrak berbagai konsentrasi

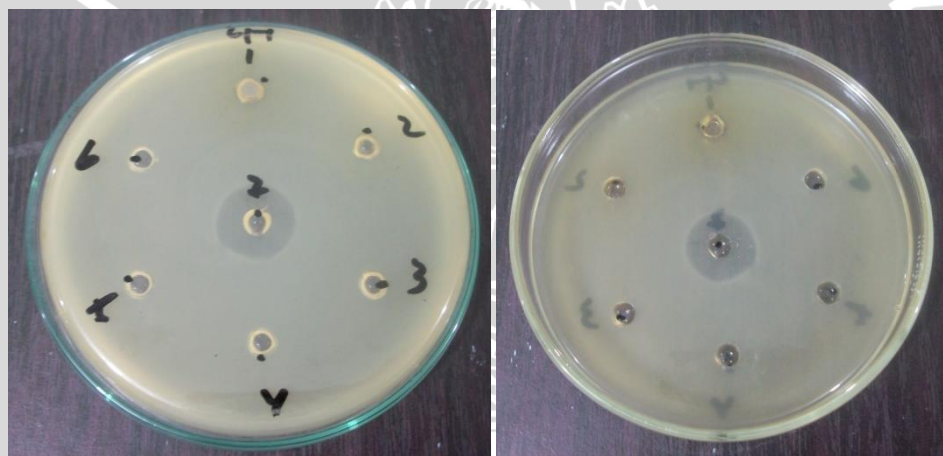


Clorhexidine Gluconate 0,2%

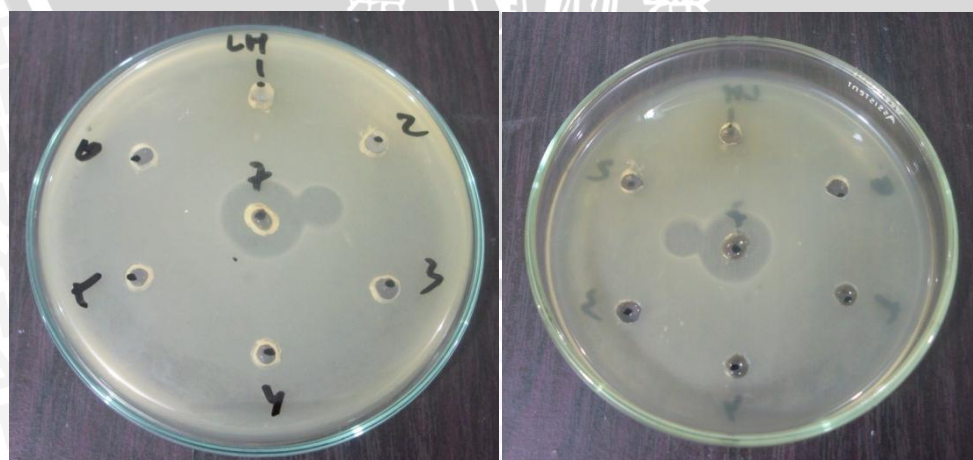
Foto Hasil Pengulangan Lada Hitam



Pengulangan 1

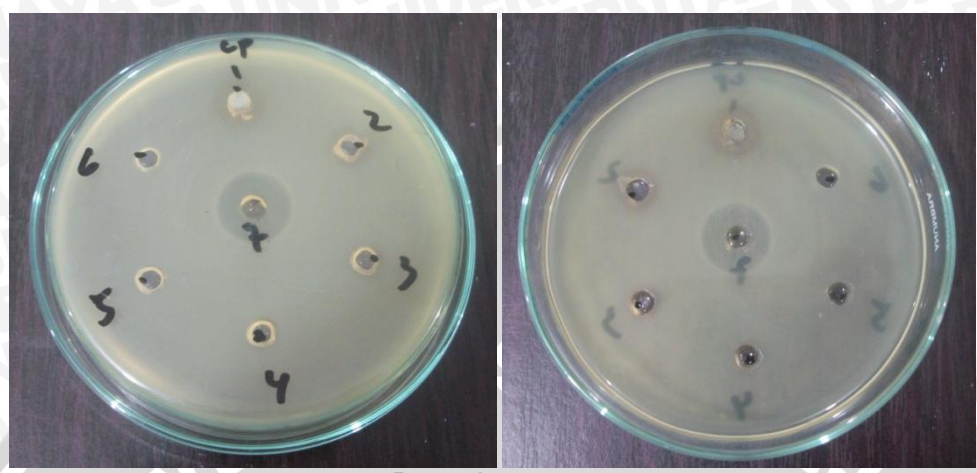


Pengulangan 2

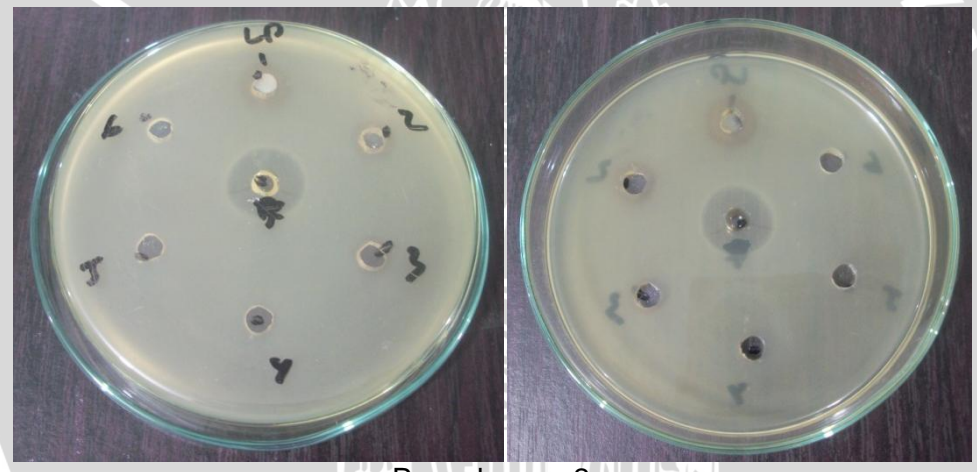


Pengulangan 3

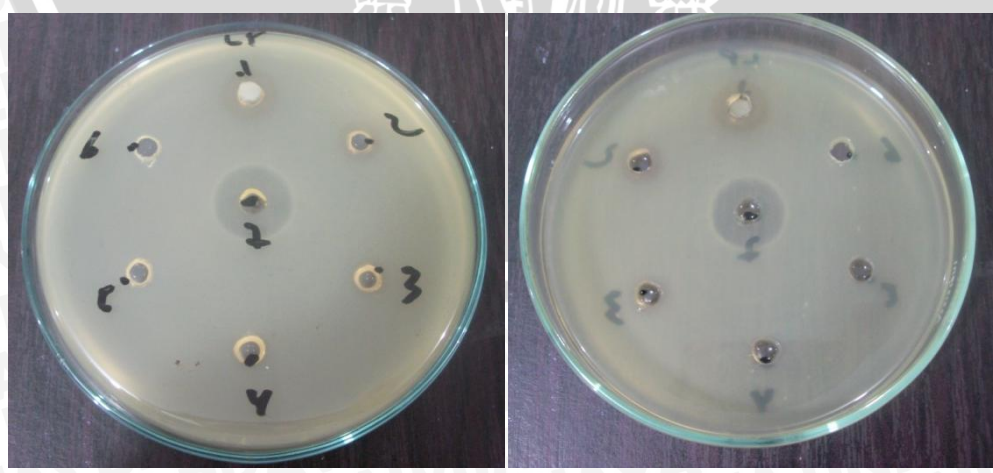
Foto Hasil Pengulangan Lada Putih



Pengulangan 1



Pengulangan 2




Pengulangan 3



Lampiran 4

Determinasi Tanaman Lada Hitam


DINAS KESEHATAN PROPINSI JAWA TIMUR
UPT MATERIA MEDICA
Jalan Lahor No.87 Telp. (0341) 593396 Batu (65313)
KOTA BATU

Nomor : 074 / 014 / 101.8 / 2014
Sifat : Biasa
Perihal : **Determinasi Tanaman Lada hitam**

Memenuhi permohonan saudara :
Nama : IRRESTA Z.P.
N I M : 105070400111026
Fakultas : Kedokteran jurusan pendidikan Dokter Gigi
Universitas Brawijaya Malang

1. Perihal determinasi tanaman Lada Hitam :
Kingdom : Plantae
Divisi : Spermatophyta.
Sub divisi : Angiospermae.
Kelas : Dicotyledonae
Bangsa : Piperales.
Suku : Piperaceae.
Marga : Piper
Jenis : *Piper nigrum* L.
Sinonim : -
Nama Daerah : Sumatera Koro-koro(Enggano) Lada(Aceh) Lada(Batak)
Ladoketek(Minangkabau) Lada(Lampung) Ladakecik(Bengkulu). Jawa
Pedes(Sunda) Merica(Jawa Tengah) Sakang(Madura). Bali Mica.
NusaTenggara Sahang(Sasak) Sana(Bima) Lada(Timor) Mboksaah (Ende)
Ngauru(Flores). Sulawesi Malitalodawa(Gorontalo) Marica(Makassar)
barica(Bugis) Risajawa(Minahasa), Maluku Marissanmau(Seram)
Emrisan(Bum) Maricangpuwe(Halmahera) Ricajawa(Ternate)

Kunci determinasi : 1b-2b-3b-4b-6b-7b-9a-41b-42b-43b-54b-59b-61-62b-63a-64a-1b-2a

2. Morfologi :Habitat : Herba,tahunan,memanjat. Batang: Bulat,beruas,bercabang,mempunyai akar pelekat hijaukotor. Daun : Tunggal,bulat telur ,pangkal bentuk jantung,ujung runcing,tepirata,panjang5-8cm,lebar2-5cm,bertangkai,duduk berseling atau tersebar,bekas dudukan daun Nampak jelas, pertulangan menyirip,hijau. Bunga : Majemuk,bentukbulir,menggantung,panjang bulir, 3,5-22cm,kepala putik dua sampai lima,tangkai sari0,5—1mm,putih,hijau. Buah: Buni,bulat,masih muda hijau setelah tua merah. Biji Bulat,putih kehitanan. Akar Tunggang,putih kotor.

3. Nama Simplicia : Piperis nigri fructus/buah lada hitam

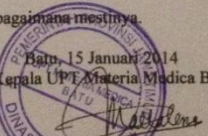
4. Kandungan kimia : BuahPipernigrummengandungasaponindanflavonoida,disamping minyakatsiri. Minyak atsiri, pinena, kariofilena, limonena, filandrena, alkaloid piperina, kavisina, piperitina, piperidina, zat pahit, dan minyak lemak

5. Penggunaan : Penelitian

6. Daftar Pustaka :

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- Anonim, <http://www.plantamor.co.id/> lada, diakses tanggal 9 Desember 2010
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- Steenis,CGGJ Van Dr , *FLORA*, 2008, Pradnya Paramita , Jakarta

Demikian determinasi ini kami buat untuk dipergunakan sebagaimana mestinya.

Batu, 15 Januari 2014
Kepala UPT Materia Medica Batu

Drs. H. H. K. M. Apt. MKes.
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