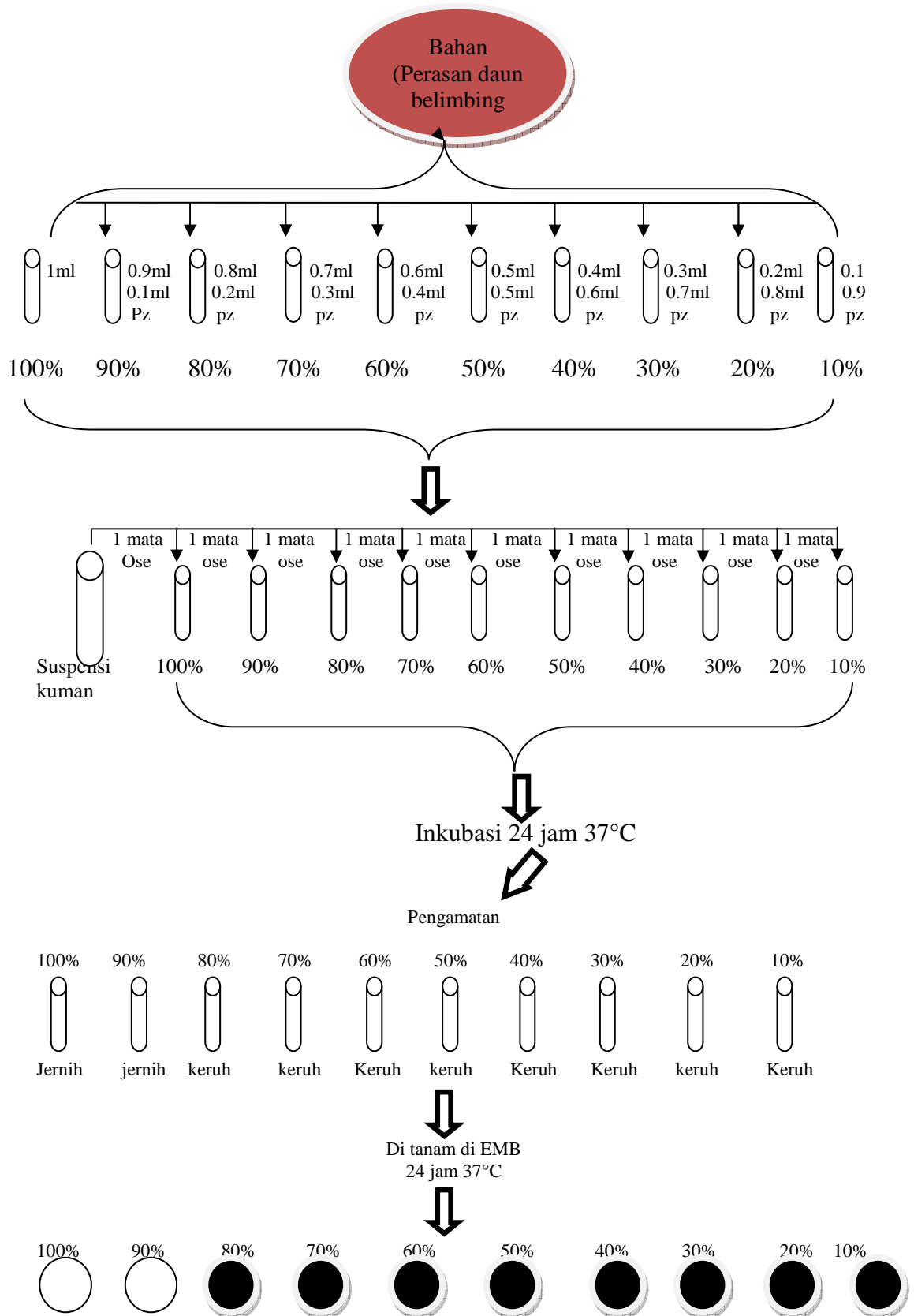


Lampiran 1

Skema penelitian



LAMPIRAN 2

Gambar masing-masing konsentrasi



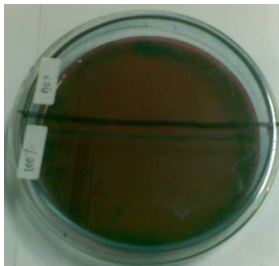
Gambar Perasan daun belimbing wuluh



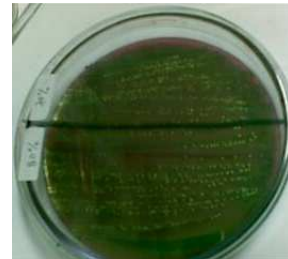
Lampiran 3

Gambar media EMB pada masing-masing konsentrasi :

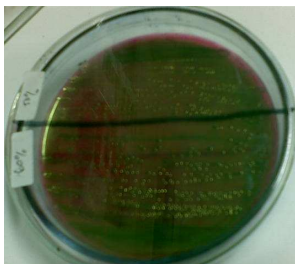
a. Konsentrasi 100% dan 90%



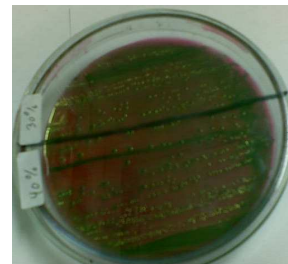
b. Konsentrasi 80% dan 70%



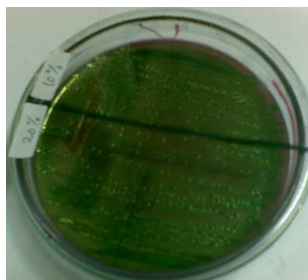
c. Konsentrasi 60% dan 50%



d. Konsentrasi 40% dan 30%



e. Konsentrasi 20% dan 10%



Lampiran 4**SURAT PERMOHONAN IJIN**

Lampiran : 2 lembar

Perihal : Permohonan Penggunaan Laboratorium Dan Peminjaman Alat

Yth.

Kepala Urusan Laboratorium Dan Praaktek Klinik

D3 Analisis Kesehatan UMSurabaya

ditempat

Assalamualaikum Wr.Wb

Yang bertanda tangan dibawah ini :

Nama : Endang Susilowati

NIM : 09.014

Judul KTI : Pengaruh Perasan Daun Belimbing Wuluh terhadap
Pertumbuhan Bakteri *E.coli*

Mengajukan permohonan penggunaan laboratorium dan peminjaman alat
sebagaimana terlampir. Demikian permohonan ijin kami.

Wassalamualaikum Wr.Wb

Surabaya, 17 April 2012

Pemohon,

Endang Susilowati

Lampiran 5

Daftar Alat Dan Reagen Yang Digunakan

No.	Nama Alat/Reagen	Jumlah	Keterangan
1.	Petry Disk (Plate)	20	
2.	Blender	1	
3.	Neraca	1	
4.	Erlenmeyer	5	
5.	Pipet ukur 5 ml	1	
6.	Filler	1	
7.	Pengaduk	3	
8.	Pemanas	2	
9.	Tabung besar	7	
10.	Tabung kecil	35	
11.	Rak tabung	4	
12.	Termometer	1	
13.	Beaker Glass 250 ml	3	
14.	Beaker glass 500 ml	1	
15.	Tabung sentrifuge	2	
16.	Sentrifuge	1	
17.	Gelas arloji	5	
18.	Autoclave	1	
19.	Ose bulat	1	
20.	Pipet ukur 1 ml	2	
21.	Labu ukur 500 ml	1	
22.	Beaker glass 1000 ml	1	
23.	Media NA	2,0 gr	
24.	Media EMB	9,5 gr	
25.	NaCl	4,25 gr	
26.	Kertas pH	1	
27.	NaOH	400 gr	
28.	HCL	1 ml	

Lampiran 6

TABULASI DATA

Pertumbuhan *E.coli* pada masing-masing konsentrasi

No	Kode Sampel	Konsentrasi perasan daun belimbing wuluh + kuman <i>E.coli</i>										
		100 %	90 %	80 %	70 %	60 %	50 %	40 %	30 %	20 %	10 %	C (+)
1.	A	+	+	-	-	-	-	-	-	-	-	-
2.	B	+	+	-	-	-	-	-	-	-	-	-
3.	C	+	+	-	-	-	-	-	-	-	-	-
Jumlah		3	3	0	0	0	0	0	0	0	0	0

Tabel 4.2 Perhitungan (Count) daya hambat dan pertumbuhan *E.coli* :

	Konsentrasi										
	100%	90%	80%	70%	60%	50%	40%	30%	20%	10%	T
Daya hambat bakteri	3	3	0	0	0	0	0	0	0	0	6
Pertumbuhan bakteri	0	0	3	3	3	3	3	3	3	3	24
Total	3	3	3	3	3	3	3	3	3	3	30

Perhitungan dengan uji Chi – Square :

Kriteria : Ho ditolak jika λ^2 hitung $>$ λ^2 tabelRumus X^2 hitung :

$$\lambda^2 = \frac{(O_{b,k} - E_{b,k})^2}{E_{b,k}}$$

$$E1 = \frac{6 \times 3}{30} = 0.6$$

$$E11 = \frac{24 \times 3}{30} = 2.4$$

$$E2 = \frac{6 \times 3}{30} = 0.6$$

$$E12 = \frac{24 \times 3}{30} = 2.4$$

$$E3 = \frac{6 \times 3}{30} = 0.6$$

$$E13 = \frac{24 \times 3}{30} = 2.4$$

$$E4 = \frac{6 \times 3}{30} = 0.6$$

$$E14 = \frac{24 \times 3}{30} = 2.4$$

$$E5 = \frac{6 \times 3}{30} = 0.6$$

$$E15 = \frac{24 \times 3}{30} = 2.4$$

$$E6 = \frac{6 \times 3}{30} = 0.6$$

$$E16 = \frac{24 \times 3}{30} = 2.4$$

$$E7 = \frac{6 \times 3}{30} = 0.6$$

$$E17 = \frac{24 \times 3}{30} = 2.4$$

$$E8 = \frac{6 \times 3}{30} = 0.6$$

$$E18 = \frac{24 \times 3}{30} = 2.4$$

$$E9 = \frac{6 \times 3}{30} = 0.6$$

$$E19 = \frac{24 \times 3}{30} = 2.4$$

$$E10 = \frac{6 \times 3}{30} = 0.6$$

$$E20 = \frac{24 \times 3}{30} = 2.4$$

$$\begin{aligned} \lambda^2 = & \square \left(\frac{(O1 - E1)^2}{E1} + \frac{(O2 - E2)^2}{E2} + \frac{(O3 - E3)^2}{E3} + \frac{(O4 - E4)^2}{E4} + \frac{(O5 - E5)^2}{E5} + \right. \\ & \frac{(O6 - E6)^2}{E6} + \frac{(O7 - E7)^2}{E7} + \frac{(O8 - E8)^2}{E8} + \frac{(O9 - E9)^2}{E9} + \frac{(O10 - E10)^2}{E10} + \\ & \frac{(O11 - E11)^2}{E11} + \frac{(O12 - E12)^2}{E12} + \frac{(O13 - E13)^2}{E13} + \frac{(O14 - E14)^2}{E14} + \frac{(O15 - E15)^2}{E15} \\ & \left. + \frac{(O16 - E16)^2}{E16} + \frac{(O17 - E17)^2}{E17} + \frac{(O18 - E18)^2}{E18} + \frac{(O19 - E19)^2}{E19} + \frac{(O20 - E20)^2}{E20} \right) \end{aligned}$$

$$\begin{aligned} \lambda^2 = & \square \left(\frac{(3 - 0.6)^2}{0.6} + \frac{(3 - 0.6)^2}{0.6} + \frac{(0 - 0.6)^2}{0.6} + \frac{(0 - 0.6)^2}{0.6} + \frac{(0 - 0.6)^2}{0.6} + \frac{(0 - 0.6)^2}{0.6} + \right. \\ & \frac{(0 - 0.6)^2}{0.6} + \frac{(0 - 0.6)^2}{0.6} + \frac{(0 - 0.6)^2}{0.6} + \frac{(0 - 0.6)^2}{0.6} + \frac{(0 - 2.4)^2}{2.4} + \frac{(0 - 2.4)^2}{2.4} \left. \right) \end{aligned}$$

$$\frac{(3-2.4)^2}{2.4} + \frac{(3-2.4)^2}{2.4} + \frac{(3-2.4)^2}{2.4} + \frac{(3-2.4)^2}{2.4} + \frac{(3-2.4)^2}{2.4} + \frac{(3-2.4)^2}{2.4} +$$

$$\frac{(3-2.4)^2}{2.4} + \frac{(3-2.4)^2}{2.4}$$

$$\begin{aligned} \lambda^2 &= \square (9.6 + 9.6 + 0.6 + 0.6 + 0.6 + 0.6 + 0.6 + 0.6 + 0.6 + 0.6 + 2.4 + 2.4 + 0.15 \\ &\quad + 0.15 + 0.15 + 0.15 + 0.15 + 0.15 + 0.15 + 0.15) \\ &= 30 \end{aligned}$$

Menentukan X^2 tabel

$$\begin{aligned} \lambda^2 \text{ tabel} &= \lambda^2 \alpha, \text{ db} \\ &= 0.05, (b-1) (k-1) \\ &= 0.05, (2-1) (10-1) \\ &= 0.05, 1 \times 9 \\ &= 0.05, 9 \\ &= 16.919 \end{aligned}$$

Dari hasil perhitungan telah didapatkan hasil λ^2 hitung $> \lambda^2$ tabel. Jadi H_0 ditolak, berarti Ada pengaruh perasan daun belimbing wuluh terhadap pertumbuhan bakteri *E.coli*.