

**LAMPIRAN A**  
**RANGKUMAN RUMUS ANAVA**

N = jumlah subyek = P x n

P = jumlah perlakuan

n = banyaknya ulangan

$$JK_{\text{tot}} = \text{jumlah kuadrat total} = \sum(Y^2_{ij}) = \frac{J^2}{N}$$

$J^2$  = kuadrat jumlah seluruh nilai pengamatan

$\sum(Y^2_{ij})$  = jumlah kuadrat seluruh nilai pengamatan

$$JK(Py) = \text{jumlah kuadrat perlakuan antar kelompok} = \frac{\sum J_i^2}{n} = \frac{J^2}{N}$$

$JK(Ey)$  = jumlah kuadrat perlakuan dalam kelompok =  $JK_{\text{tot}} - JK(Py)$

db(Py) = derajat bebas perlakuan antar kelompok = P - 1

db(Ey) = derajat bebas perlakuan antar kelompok = N - P

db<sub>tot</sub> = derajat bebas total = N - 1

$$RJK(Py) = \text{mean kuadrat perlakuan antar kelompok} = \frac{JK(Py)}{db_{(Py)}}$$

$$RJK(Ey) = \text{mean kuadrat perlakuan antar kelompok} = \frac{JK(Py)}{db_{(Ey)}}$$

$$F \text{ hitung} = \frac{RJK(Py)}{RJK(Ey)}$$

F hitung = harga F yang diperoleh

LAMPIRAN B

PERHITUNGAN ANAVA DAN HSD

Perhitungan Anava Kadar Asam Urat Serum Darah Tikus Putih Pada Berbagai Waktu Pengamatan

Perhitungan Anava Kadar Asam Urat Serum Darah Tikus Putih (hari ke-0)

| Hewan | Konsentrasi (mg/dl) |        |        |        |        | Jumlah  |
|-------|---------------------|--------|--------|--------|--------|---------|
|       | K                   | E 1    | E 2    | E 3    | P      |         |
| 1     | 3,0                 | 3,2    | 2,8    | 3,6    | 2,7    |         |
| 2     | 3,3                 | 3,5    | 3,0    | 2,9    | 2,9    |         |
| 3     | 2,9                 | 2,9    | 3,2    | 3,0    | 2,9    |         |
| 4     | 3,5                 | 2,4    | 2,7    | 2,9    | 3,1    |         |
| 5     | 3,3                 | 3,1    | 3,4    | 2,8    | 2,8    |         |
| N     | 5                   | 5      | 5      | 5      | 5      | 25      |
| X     | 3,20                | 3,02   | 3,02   | 3,04   | 2,88   |         |
| Ji    | 16                  | 15,1   | 15,1   | 15,2   | 14,4   | 75,8    |
| J2i   | 256                 | 228,01 | 228,01 | 231,04 | 207,36 | 1150,42 |
| Y2ij  | 51,44               | 46,27  | 45,93  | 46,62  | 41,56  | 231,82  |

$$JKT = \sum Y^2_{ij} - \sum J^2 / N = 231,82 - (75,8)^2 / 25 = 1,9944$$

$$JKPy = \sum J^2_{i/n} - \sum J^2 / N = 1150,42 / 5 - (75,8)^2 / 25 = 0,2584$$

$$JKEy = JKT - JKPy = 1,9944 - 0,2584 = 1,736$$

$$dbT = Kn - 1 = 25 - 1 = 24$$

$$dbPy = K - 1 = 5 - 1 = 4$$

$$dbEy = dbT - dbPy = 24 - 4 = 20$$

$$RJKPy = JKPy / dbPy = 0,2584 / 4 = 0,0646$$

$$RJKEy = JKEy / dbEy = 1,736 / 20 = 0,0868$$

$$Fr = RJKPy / RJKEy = 0,0646 / 0,0868 = 0,7442$$

F tabel p (0,05) (4;20) = 2,87

F tabel p (0,01) (4;20) = 4,43

**Kesimpulan:** karena  $F_{hitung} < F_{tabel}$ , maka  $H_0$  diterima dan  $H_a$  ditolak, dengan demikian perlakuan-perlakuan memberikan efek yang tidak berbeda secara bermakna antar kelompok perlakuan.



**Perhitungan Anava Kadar Asam Urat Serum Darah Tikus Putih (hari ke-11)**

| Hewan | Konsentrasi (mg/dl) |        |        |        | P      | Jumlah  |
|-------|---------------------|--------|--------|--------|--------|---------|
|       | K                   | E 1    | E 2    | E 3    |        |         |
| 1     | 3,8                 | 3,4    | 3,7    | 4,5    | 3,3    |         |
| 2     | 4,9                 | 3,9    | 4,1    | 3,8    | 3,3    |         |
| 3     | 3,9                 | 3,1    | 3,4    | 3,9    | 3,8    |         |
| 4     | 5,2                 | 3,2    | 3,9    | 3,7    | 4,1    |         |
| 5     | 4,3                 | 4,0    | 4,3    | 3,5    | 3,9    |         |
| N     | 5                   | 5      | 5      | 5      | 5      | 25      |
| X     | 4,42                | 3,52   | 3,88   | 3,88   | 3,68   |         |
| Ji    | 22,1                | 17,6   | 19,4   | 19,4   | 18,4   | 96,9    |
| J2i   | 488,41              | 309,76 | 376,36 | 376,36 | 338,56 | 1889,45 |
| Y2ij  | 99,19               | 62,62  | 75,76  | 75,84  | 68,24  | 381,65  |

$$JKT = \sum Y^2_{ij} - \sum J^2 / N = 381,65 - (96,9)^2 / 25 = 6,0656$$

$$JKPy = \sum J^2_{i/n} - \sum J^2 / N = 1889,45 / 5 - (96,9)^2 / 25 = 2,3056$$

$$JKEy = JKT - JKPy = 6,0656 - 2,3056 = 3,76$$

$$dbT = Kn - 1 = 25 - 1 = 24$$

$$dbPy = K - 1 = 5 - 1 = 4$$

$$dbEy = dbT - dbPy = 24 - 4 = 20$$

$$RJKPy = JKPy / dbPy = 2,3056 / 4 = 0,5764$$

$$RJKEy = JKEy / dbEy = 3,76 / 20 = 0,188$$

$$Fr = RJKPy / RJKEy = 0,5764 / 0,188 = 3,0659$$

$$F \text{ tabel } p (0,05) (4;20) = 2,87 \quad F \text{ tabel } p (0,01) (4;20) = 4,43$$

**Kesimpulan:** karena F hitung > F tabel, maka Ho ditolak dan Ha diterima, dengan demikian perlakuan-perlakuan memberikan efek yang berbeda

secara bermakna antar kelompok perlakuan, maka dilanjutkan dengan Uji HSD 1% dan 5% untuk melihat dimana letak perbedaan bermakna antar setiap kelompok sampel.

$$\begin{aligned} \text{HSD } 5\% &= q(0,05; p; db/dk) - \sqrt{\frac{RJK_{E_y}}{n}} \\ &= 4,23 \sqrt{(2 \times 0,188)/5} \\ &= 1,16 \end{aligned}$$



**Perhitungan Anava Kadar Asam Urat Serum Darah Tikus Putih (hari ke-22)**

| Hewan | Konsentrasi (mg/dl) |        |        |        | P      | Jumlah  |
|-------|---------------------|--------|--------|--------|--------|---------|
|       | K                   | E 1    | E 2    | E 3    |        |         |
| 1     | 4,1                 | 3,1    | 3,4    | 4,1    | 2,8    |         |
| 2     | 4,7                 | 3,5    | 2,8    | 3,3    | 3,1    |         |
| 3     | 3,9                 | 3,0    | 3,1    | 3,1    | 3,3    |         |
| 4     | 5,1                 | 3,0    | 3,2    | 3,2    | 3,4    |         |
| 5     | 4,4                 | 3,1    | 3,7    | 2,9    | 3,0    |         |
| N     | 5                   | 5      | 5      | 5      | 5      | 25      |
| X     | 4,44                | 3,14   | 3,24   | 3,32   | 3,12   |         |
| Ji    | 22,2                | 15,7   | 16,2   | 16,6   | 15,6   | 86,3    |
| J2i   | 492,84              | 246,49 | 262,44 | 275,56 | 243,36 | 1520,69 |
| Y2ij  | 99,48               | 49,47  | 52,94  | 55,96  | 48,9   | 306,75  |

$$JKT = \sum Y^2_{ij} - \sum J^2 / N = 306,75 - (86,3)^2 / 25 = 8,8424$$

$$JKPy = \sum J^2_{i/n} - \sum J^2 / N = 1520,69 / 5 - (86,3)^2 / 25 = 6,2304$$

$$JKEy = JKT - JKPy = 8,8424 - 6,2304 = 2,612$$

$$dbT = Kn - 1 = 25 - 1 = 24$$

$$dbPy = K - 1 = 5 - 1 = 4$$

$$dbEy = dbT - dbPy = 24 - 4 = 20$$

$$RJKPy = JKPy / dbPy = 6,2304 / 4 = 1,5576$$

$$RJKEy = JKEy / dbEy = 2,612 / 20 = 0,1306$$

$$Fr = RJKPy / RJKEy = 1,5576 / 0,1306 = 11,9265$$

$$F \text{ tabel } p(0,05) (4;20) = 2,87$$

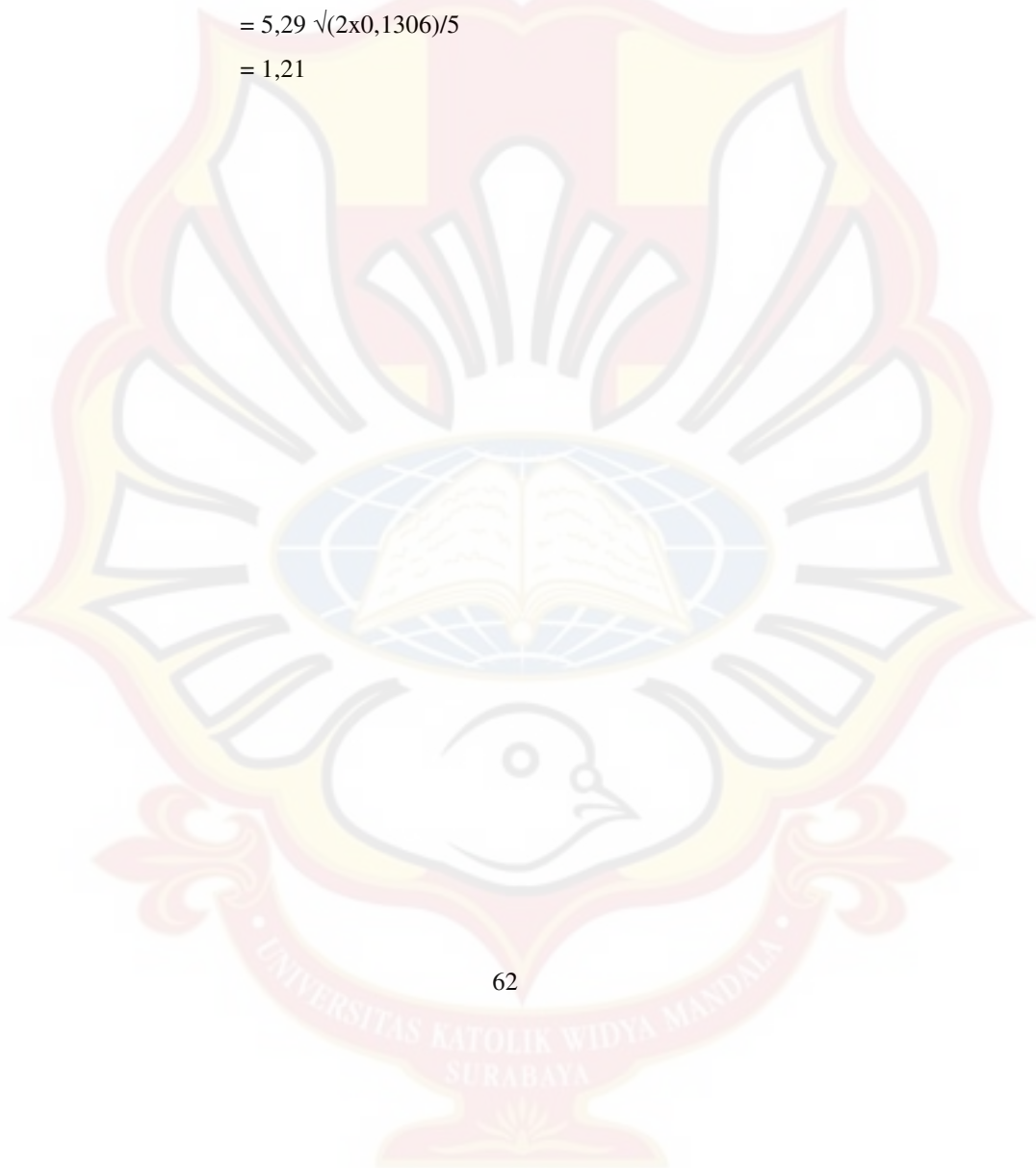
$$F \text{ tabel } p(0,01) (4;20) = 4,43$$

**Kesimpulan:** karena F hitung > F tabel, maka Ho ditolak dan Ha diterima, dengan demikian perlakuan-perlakuan memberikan efek yang berbeda secara bermakna antar kelompok perlakuan, maka dilanjutkan dengan Uji

HSD 1% dan 5% untuk melihat dimana letak perbedaan bermakna antar setiap kelompok sampel.

$$\begin{aligned}\text{HSD } 5\% &= q(0,05; p; db/dk) - \sqrt{(R)K(Ey/n)} \\ &= 4,23 \sqrt{(2 \times 0,1306)/5} \\ &= 0,97\end{aligned}$$

$$\begin{aligned}\text{HSD } 1\% &= q(0,01; p; db/dk) - \sqrt{(R)K(Ey/n)} \\ &= 5,29 \sqrt{(2 \times 0,1306)/5} \\ &= 1,21\end{aligned}$$



## LAMPIRAN C

### HASIL PERHITUNGAN

- Hasil Perhitungan Susut Pengeringan Simplisia

| Replikasi        | Hasil Susut Pengeringan | Syarat       | Keterangan |
|------------------|-------------------------|--------------|------------|
| 1                | 7,34                    |              | MS         |
| 2                | 7,17                    |              | MS         |
| 3                | 7,26                    |              | MS         |
| <b>Rata-rata</b> | <b>7,26</b>             | <b>≤ 10%</b> | <b>MS</b>  |

**Keterangan: MS:** Memenuhi syarat (Depkes RI, 1979)

- Perhitungan Penetapan Kadar Abu Simplisia

$$\text{Kadar abu} = \frac{(\text{Berat konstan krus} + \text{abu}) - (\text{Berat konstan krus kosong})}{\text{Berat serbuk}} \times 100\%$$

| Replikasi                    | Berat serbuk (gram) | Berat konstan krus kosong (gram) | Berat konstan krus+abu (gram) | Kadar abu       | syarat      | Ket       |
|------------------------------|---------------------|----------------------------------|-------------------------------|-----------------|-------------|-----------|
| 1                            | 2,03                | 19,4224                          | 19,5981                       | 8,785 %         |             | MS        |
| 2                            | 2,00                | 19,7423                          | 19,9221                       | 8,945 %         |             | MS        |
| 3                            | 2,01                | 19,4216                          | 19,5967                       | 8,626 %         |             | MS        |
| <b>Rata-rata % kadar abu</b> |                     |                                  |                               | <b>= 8,785%</b> | <b>≤12%</b> | <b>MS</b> |

**Keterangan: MS:** Memenuhi Syarat (Depkes RI, 1979)



- Hasil Pemeriksaan Kadar Sari larut Etanol

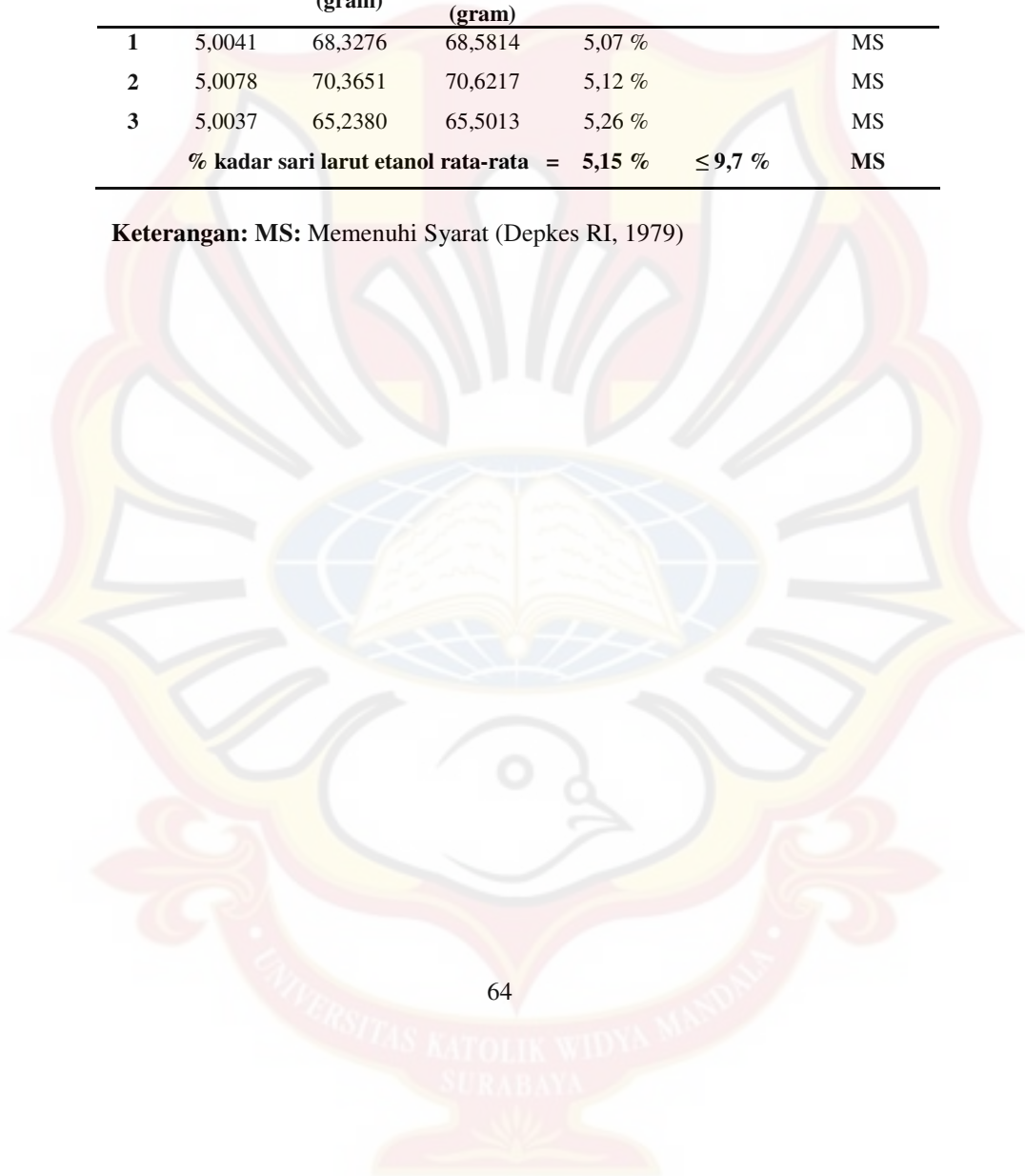
Kadar Sari Larut Etanol =

$$\frac{(\text{Berat konstan cawan + serbuk}) - (\text{berat cawan})}{\text{Berat serbuk}} \times 100\%$$

Berat serbuk

| No   | Berat serbuk (gram) | Berat konstan cawan (gram) | Berat konstan cawan + serbuk (gram) | Kadar sari larut etanol | syarat         | keterangan |
|--|---------------------|----------------------------|-------------------------------------|-------------------------|----------------|------------|
| 1  | 5,0041              | 68,3276                    | 68,5814                             | 5,07 %                  |                | MS         |
| 2  | 5,0078              | 70,3651                    | 70,6217                             | 5,12 %                  |                | MS         |
| 3  | 5,0037              | 65,2380                    | 65,5013                             | 5,26 %                  |                | MS         |
| <b>% kadar sari larut etanol rata-rata =</b> |                     |                            |                                     | <b>5,15 %</b>           | <b>≤ 9,7 %</b> | <b>MS</b>  |

**Keterangan:** MS: Memenuhi Syarat (Depkes RI, 1979)



● **Perhitungan Harga Rf pada Pemeriksaan Secara KLT**

| Zat berkhasiat | Pengamatan | Noda | Harga Rf       |
|----------------|------------|------|----------------|
| Flavonoid      | UV 254 nm  | A    | $5,1/8 = 0,64$ |
|                |            | B    | $5,0/8 = 0,63$ |
|                | UV 366 nm  | A    | $5,2/8 = 0,65$ |
|                |            | B    | $5,0/8 = 0,63$ |
|                | Visible    | A    | $4,9/8 = 0,61$ |
|                |            | B    | $5,0/8 = 0,63$ |

Keterangan:

Harga Rf =  $\frac{\text{Jarak yang ditempuh noda}}{\text{Jarak yang ditempuh eluen}}$

Harga Rf Rutin = 0,63 (Wagner, 2001)

## HASIL PERHITUNGAN % PENURUNAN KADAR ASAM URAT DARAH

| Hari Ke- | % Penurunan Kadar Asam Urat Darah |         |         |            |
|----------|-----------------------------------|---------|---------|------------|
|          | 10% v/v                           | 15% v/v | 20% v/v | Alopurinol |
| 22       | 10,7954                           | 16,4948 | 14,4330 | 14,7541    |

Contoh perhitungan % penurunan kadar asam urat darah berdasarkan rumus:

$$\% \text{ Penurunan Kadar Asam Urat Darah} = \frac{G_0 - G}{G_0} \times 100 \%$$

Keterangan:  $G_0$  = Kadar Asam Urat Serum Darah yang diambil pada hari ke - 0

$G$  = Kadar Asam Urat Serum Darah yang diambil pada hari ke - 22

Pada kelompok tikus yang diberi ekstrak daun sambiloto secara oral dengan dosis 1,0 g/kg BB pada hari ke- 22 adalah sebagai berikut:

$$G_0 = 3,52$$

$$G = 3,14$$

Maka % penurunan kadar asam urat darah =

$$\frac{(3,52 - 3,14)}{3,52} \times 100 \% = 10,7954 \%$$

LAMPIRAN D

TABEL UJI HSD

TABEL UJI HSD 1%

| <b>d. k.</b> \ <b>k</b> | <b>2</b> | <b>3</b> | <b>4</b> | <b>5</b> | <b>6</b> | <b>7</b> | <b>8</b> | <b>9</b> | <b>10</b> | <b>11</b> |
|-------------------------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|
| 5                       | 5.70     | 6.98     | 7.80     | 8.42     | 8.91     | 9.32     | 9.67     | 9.97     | 10.24     | 10.48     |
| 6                       | 5.24     | 6.33     | 7.03     | 7.56     | 7.97     | 8.32     | 8.61     | 8.87     | 9.10      | 9.30      |
| 7                       | 4.95     | 5.92     | 6.54     | 7.01     | 7.37     | 7.68     | 7.94     | 8.17     | 8.37      | 8.55      |
| 8                       | 4.75     | 5.64     | 6.20     | 6.62     | 6.96     | 7.24     | 7.47     | 7.68     | 7.86      | 8.03      |
| 9                       | 4.60     | 5.43     | 5.96     | 6.35     | 6.66     | 6.91     | 7.13     | 7.33     | 7.49      | 7.63      |
| 10                      | 4.48     | 5.27     | 5.77     | 6.14     | 6.43     | 6.67     | 6.87     | 7.05     | 7.21      | 7.36      |
| 11                      | 4.39     | 5.15     | 5.62     | 5.97     | 6.25     | 6.48     | 6.67     | 6.84     | 6.99      | 7.13      |
| 12                      | 4.32     | 5.05     | 5.50     | 5.84     | 6.10     | 6.32     | 6.51     | 6.67     | 6.81      | 6.94      |
| 13                      | 4.26     | 4.96     | 5.40     | 5.73     | 5.98     | 6.19     | 6.37     | 6.53     | 6.67      | 6.79      |
| 14                      | 4.21     | 4.89     | 5.32     | 5.63     | 5.88     | 6.08     | 6.26     | 6.41     | 6.54      | 6.66      |
| 15                      | 4.17     | 4.84     | 5.25     | 5.56     | 5.80     | 5.99     | 6.16     | 6.31     | 6.44      | 6.55      |
| 16                      | 4.13     | 4.79     | 5.19     | 5.49     | 5.72     | 5.92     | 6.08     | 6.22     | 6.35      | 6.46      |
| 17                      | 4.10     | 4.74     | 5.14     | 5.43     | 5.66     | 5.85     | 6.01     | 6.15     | 6.27      | 6.38      |
| 18                      | 4.07     | 4.70     | 5.09     | 5.38     | 5.60     | 5.79     | 5.94     | 6.08     | 6.20      | 6.31      |
| 19                      | 4.05     | 4.67     | 5.05     | 5.33     | 5.55     | 5.73     | 5.89     | 6.02     | 6.14      | 6.25      |
| 20                      | 4.02     | 4.64     | 5.02     | 5.29     | 5.51     | 5.69     | 5.84     | 5.97     | 6.09      | 6.19      |
| 24                      | 3.96     | 4.55     | 4.91     | 5.17     | 5.37     | 5.54     | 5.69     | 5.81     | 5.92      | 6.02      |
| 30                      | 3.89     | 4.45     | 4.80     | 5.05     | 5.24     | 5.40     | 5.54     | 5.65     | 5.76      | 5.85      |
| 40                      | 3.82     | 4.37     | 4.70     | 4.93     | 5.11     | 5.26     | 5.39     | 5.50     | 5.60      | 5.67      |
| 60                      | 3.76     | 4.28     | 4.59     | 4.82     | 4.99     | 5.13     | 5.25     | 5.36     | 5.45      | 5.53      |
| 120                     | 3.70     | 4.20     | 4.50     | 4.71     | 4.87     | 5.01     | 5.12     | 5.21     | 5.30      | 5.38      |
| ∞                       | 3.64     | 4.12     | 4.40     | 4.60     | 4.76     | 4.88     | 4.99     | 5.08     | 5.16      | 5.23      |

TABEL UJI HSD 5%

| $k \backslash d. k.$ | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   |
|----------------------|------|------|------|------|------|------|------|------|------|------|
| 5                    | 3.64 | 4.60 | 5.22 | 5.67 | 6.03 | 6.33 | 6.58 | 6.80 | 6.99 | 7.17 |
| 6                    | 3.46 | 4.34 | 4.90 | 5.30 | 5.63 | 5.90 | 6.12 | 6.32 | 6.49 | 6.65 |
| 7                    | 3.34 | 4.16 | 4.68 | 5.06 | 5.36 | 5.61 | 5.82 | 6.00 | 6.16 | 6.30 |
| 8                    | 3.26 | 4.04 | 4.53 | 4.89 | 5.17 | 5.40 | 5.60 | 5.77 | 5.92 | 6.05 |
| 9                    | 3.20 | 3.95 | 4.41 | 4.76 | 5.02 | 5.24 | 5.43 | 5.59 | 5.74 | 5.87 |
| 10                   | 3.15 | 3.88 | 4.33 | 4.65 | 4.91 | 5.12 | 5.30 | 5.46 | 5.60 | 5.72 |
| 11                   | 3.11 | 3.82 | 4.26 | 4.57 | 4.82 | 5.03 | 5.20 | 5.35 | 5.49 | 5.61 |
| 12                   | 3.08 | 3.77 | 4.20 | 4.51 | 4.75 | 4.95 | 5.12 | 5.27 | 5.39 | 5.51 |
| 13                   | 3.06 | 3.73 | 4.15 | 4.45 | 4.69 | 4.88 | 5.05 | 5.19 | 5.32 | 5.43 |
| 14                   | 3.03 | 3.70 | 4.11 | 4.41 | 4.64 | 4.83 | 4.99 | 5.13 | 5.25 | 5.36 |
| 15                   | 3.01 | 3.67 | 4.08 | 4.37 | 4.59 | 4.78 | 4.94 | 5.08 | 5.20 | 5.31 |
| 16                   | 3.00 | 3.65 | 4.05 | 4.33 | 4.56 | 4.74 | 4.90 | 5.03 | 5.15 | 5.26 |
| 17                   | 2.98 | 3.63 | 4.02 | 4.30 | 4.52 | 4.71 | 4.86 | 4.99 | 5.11 | 5.21 |
| 18                   | 2.97 | 3.61 | 4.00 | 4.28 | 4.49 | 4.67 | 4.82 | 4.96 | 5.07 | 5.17 |
| 19                   | 2.96 | 3.59 | 3.98 | 4.25 | 4.47 | 4.65 | 4.79 | 4.92 | 5.04 | 5.14 |
| 20                   | 2.95 | 3.58 | 3.96 | 4.23 | 4.45 | 4.62 | 4.77 | 4.90 | 5.01 | 5.11 |
| 24                   | 2.92 | 3.53 | 3.90 | 4.17 | 4.37 | 4.54 | 4.68 | 4.81 | 4.92 | 5.01 |
| 30                   | 2.89 | 3.49 | 3.85 | 4.10 | 4.30 | 4.46 | 4.60 | 4.72 | 4.82 | 4.92 |
| 40                   | 2.86 | 3.44 | 3.79 | 4.04 | 4.23 | 4.39 | 4.52 | 4.63 | 4.73 | 4.82 |
| 60                   | 2.83 | 3.40 | 3.74 | 3.98 | 4.16 | 4.31 | 4.44 | 4.55 | 4.65 | 4.73 |
| 120                  | 2.80 | 3.36 | 3.68 | 3.92 | 4.10 | 4.24 | 4.36 | 4.47 | 4.56 | 4.64 |
| $\infty$             | 2.77 | 3.31 | 3.63 | 3.86 | 4.03 | 4.17 | 4.29 | 4.39 | 4.47 | 4.55 |

Catatan kaki: Dari *Annals of mathematical statistics*. Ditunggal cetak sekizin penerbit, The Institute of Mathematical Statistics.

Sumber: Scheffler (1987).

**LAMPIRAN E**  
**TABEL KORELASI**

Tabel Korelasi (r)

| DEGREES OF FREEDOM (DF) | 5 PERCENT | 1 PERCENT | DEGREES OF FREEDOM (DF) | 5 PERCENT | 1 PERCENT |
|-------------------------|-----------|-----------|-------------------------|-----------|-----------|
| 1                       | .997      | 1.000     | 24                      | .388      | .496      |
| 2                       | .950      | .990      | 25                      | .381      | .487      |
| 3                       | .878      | .959      | 26                      | .374      | .478      |
| 4                       | .811      | .917      | 27                      | .367      | .470      |
| 5                       | .754      | .874      | 28                      | .361      | .463      |
| 6                       | .707      | .834      | 29                      | .355      | .456      |
| 7                       | .666      | .798      | 30                      | .349      | .449      |
| 8                       | .632      | .765      | 35                      | .325      | .418      |
| 9                       | .602      | .735      | 40                      | .304      | .393      |
| 10                      | .576      | .708      | 48                      | .288      | .372      |
| 11                      | .553      | .684      | 50                      | .273      | .354      |
| 12                      | .532      | .661      | 60                      | .250      | .325      |
| 13                      | .514      | .641      | 70                      | .232      | .302      |
| 14                      | .497      | .623      | 80                      | .217      | .283      |
| 15                      | .482      | .606      | 90                      | .205      | .267      |
| 16                      | .468      | .590      | 100                     | .195      | .254      |
| 17                      | .456      | .575      | 125                     | .174      | .228      |
| 18                      | .444      | .561      | 150                     | .159      | .208      |
| 19                      | .433      | .549      | 200                     | .138      | .181      |
| 20                      | .423      | .537      | 300                     | .113      | .148      |
| 21                      | .413      | .526      | 400                     | .098      | .128      |
| 22                      | .404      | .515      | 500                     | .088      | .115      |
| 23                      | .396      | .505      | 1000                    | .062      | .081      |

Sumber: Soedigdo & Soedigdo (1977)

LAMPIRAN F  
DETERMINASI



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KOTA BATU

Nomor : 074 / 03 / 111.14 / 2009  
Sifat : Biasa  
Perihal : **Determinasi Tanaman Sambiloto**

Memenuhi permohonan saudara  
Nama : Catharina Maya  
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Fakultas : Fakultas Farmasi  
Universitas Widya Mandala Surabaya

- Perihal determinasi tanaman Sambiloto  
Divisi : Spermatophyta  
Sub divisi : Angiospermae  
Kelas : Dicotyledonae  
Bangsa : Solanales  
Suku : Acanthaceae  
Marga : Andrographis  
Jenis : *Andrographis paniculata* Nees
- Nama Simplisia : Andrographidis Herba / Herba Sambiloto
- Kandungan Kimia : saponin, flavonoida, tanin, Zat pahit (andrografin, andrografoloid), dan panikulin
- Penggunaan : Penelitian

Demikian determinasi ini kami buat untuk dipergunakan sebagaimana mestinya.

Batu, 15 Januari 2009  
An. Kepala Balai Materia Medica Batu  
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