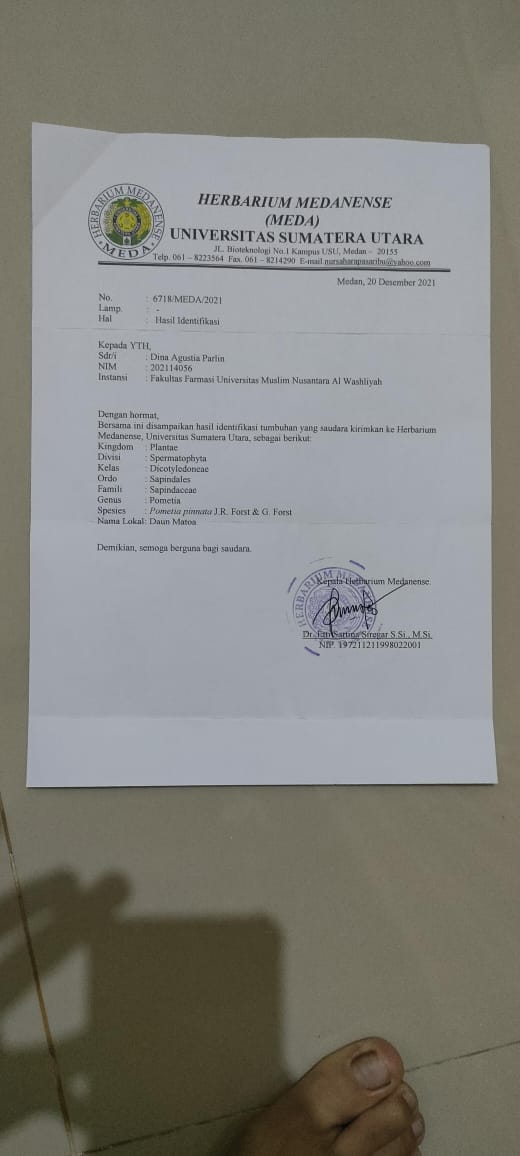
**Lampiran 1.** Hasil Identifikasi Tumbuhan



**Lampiran 2.** Bagan Alir Pembuatan Simplisia Daun Matoa

Daun Matoa Segar

`

Disortasi basah

Dicuci dengan air kran mengalir

Ditiriskan

Dirajang tipis-tipis

Ditimbang

Berat basah daun matoa

Dikeringkan dalam lemari pengering dengan suhu ±40oC

Disortasi kering

Ditimbang kembali

Berat kering simplisia daun matoa

Dihaluskan menggunakan blender

Disimpan dalam wadah tertutup

Serbuk simplisia daun matoa

**Lampiran 3.** Bagan Alir Karakterisasi Simplisia Daun Matoa

Serbuk simplisia daun matoa

Kadar sari larut etanol

Kadar abu tidak larut asam

Kadar Air

Pemeriksaan Makroskopik

Kadar abu total

Pemeriksaan Mikroskopik

Kadar sari larut air

**Lampiran 4.** Bagan Alir Pembuatan Ekstrak Etanol Daun Matoa

Serbuk Simplisia

Ditimbang 500 gram

Dimasukkan dalam bejana

Ditambahkan 75 bagian etanol 96% (3750 ml) diamkan selama 5 hari

Diaduk sesekali dan disaring

Ampas 1

Maserat 1

Dibilas dengan 25 bagian etanol 96% (1250 ml)

Maserat I dan II dicampur

Diamkan selama 2 hari, lalu di enap tuangkan

Maserat

Di pekatkan dengan Rotary evaporator

Ekstrak Kental Daun Matoa

**Lampiran 5.** Bagan Alir Skrining Fitokimia Simplisia dan Ekstrak Daun Matoa *(Pometia pinnata* J.R. Forst & G. Forst*)*

Golongan Steroid/Triter-penoid

Golongan Tanin

Golongan Saponin

Golongan Flavonoid

Golongan Alkaloid

Skrining fitokimia

Ekstrak daun matoa

Serbuk simplisia daun matoa

Golongan Glikosida

**Lampiran 6.** Bagan Alir Uji Sitotoksisitas Ekstrak Daun Matoa

Timbang 0,2 g ekstrak daun matoa

Dilarutkan dengan 100 ml air laut

Larutan induk 2000 ppm

Dibuat dalam beberapa variasi konsentrasi

100 μg/ml, 200 μg/ml, 300 μg/ml, 400 μg/ml, 500 μg/ml, 600 μg/ml, 700 μg/ml, 800 μg/ml, 900 μg/ml, 1000 μg/ml

Dimasukkan 10 ekor larva udang ke dalam masing masing vial

Lalu diambil beberapa ml LIB 2000 ppm sesuai yang dibutuhkan tiap konsentrasi, lalu ditambahkan dengan air laut 10 ml

Masing-masing konsentrasi dibuat dengan 3 kali pengulangan

Mortalitas dihitung setelah 24 jam

Hitung LC50

**Lampiran 7.** Pengolahan Sampel Daun Matoa



Pencucian

Sortasi basah

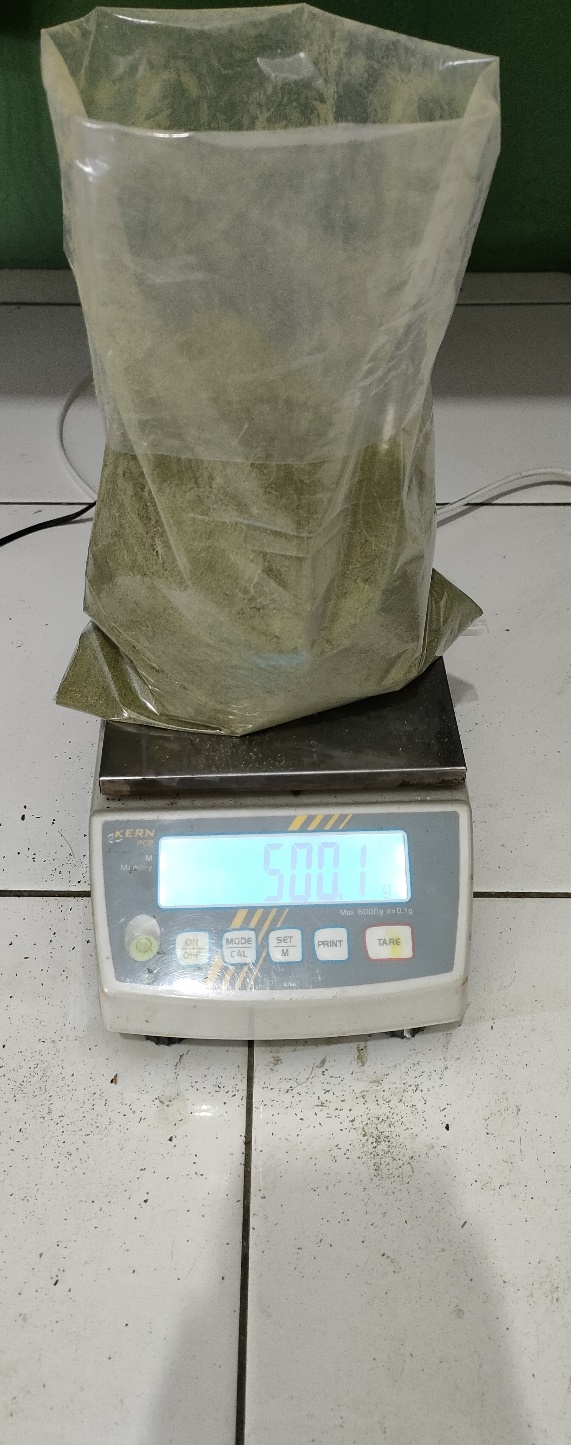
Pengeringan

Perajangan

Pengayakan

Penghalusan

**Lampiran 8.** Proses Ekstraksi Daun Matoa





Serbuk simplisia daun matoa

Hasil maserat daun matoa



Ekstrak kental daun matoa

Pengentalan ekstrak daun matoa

**Lampiran 9.** Makroskopik Daun Matoa

Daun Matoa



Lebar daun matoa ± 12 cm

Panjang daun matoa ± 30 cm

**Lampiran 10.** Pemeriksaan Mikroskopik Serbuk Daun Matoa



2

1

Keterangan Gambar :

Sel Parenkim

Epidermis

**Lampiran 11.** Perhitungan Susut Pengeringan Daun Matoa

Diketahui :

Bobot tumbuhan segar = 3000 gram

Bobot simplisia = 800 gram

= 73, 3 %

**Lampiran 12.** Perhitungan Rendemen Ekstrak Etanol Daun Matoa

Rendemen Ekstrak Etanol Daun Matoa *(Pometia pinnata)*

Berat simplisia Daun Matoa = 500 gram

Berat ekstrak Daun matoa = 96,9530 gram

19,3 %

**Lampiran 13.** Perhitungan Hasil Karakterisasi simplisia Daun Matoa

**Perhitungan Kadar Air**

Perhitungan Kadar Air menurut (Depkes RI, 1989):

**Pengulangan 1**

Volume awal air (Vo) = 1,9 ml

Volume akhir air (V1) = 2,3 ml

Berat sampel = 5 gram

= 8 %

**Pengulangan 2**

Volume awal air (Vo) = 2,0 ml

Volume akhir air (V1) = 2,4 ml

Berat sampel = 5 gram

= 8 %

**Pengulangan 3**

Volume awal air (Vo) = 1,9 ml

Volume akhir air (V1) = 2,2 ml

Berat sampel = 5 gram

**Lampiran 13.** (Lanjutan)

= 6 %

= 7,33 %

**Perhitungan Penetapan Kadar Sari Larut Air**

Perhitungan Penetapan Kadar Sari Larut Air menurut (Depkes RI, 1989):

**Pengulangan 1**

Berat cawan kosong = 28,8785 gram

Berat cawan + sari = 29,0205 gram

Berat sari kering = (Berat cawan + sari) – (berat cawan kosong)

**=** 29,0205 gram – 28,8785 gram

=0,142 gram

= 14,2 %

**Pengulangan 2**

Berat cawan kosong = 33, 0506 gram

Berat cawan + sari = 33,2046 gram

Berat sari kering = (Berat cawan + sari) – (berat cawan kosong)

**=** 33,2046 gram – 33,0506 gram

=0,154 gram

= 15,4 %

**Lampiran 13. (**Lanjutan)

**Pengulangan 3**

Berat cawan kosong = 26,8652 gram

Berat cawan + sari = 26,9902 gram

Berat sari kering = (Berat cawan + sari) – (berat cawan kosong)

**=** 26,9902 gram – 26,8652 gram

=0,125 gram

= 12,5 %

= 14,03 %

**Perhitungan Hasil Penetapan Kadar Sari Larut Etanol**

Perhitungan Kadar Sari Larut Etanol menurut (Depkes RI, 1989):

**Pengulangan 1**

Berat cawan kosong = 27,7592 gram

Berat cawan + sari = 27,8222 gram

Berat sari kering = (Berat cawan + sari) – (berat cawan kosong)

**=** 27,8222 gram – 27,7592 gram

=0,063 gram

= 6,3 %

**Pengulangan 2**

Berat cawan kosong = 34,3543 gram

Berat cawan + sari = 34,4216 gram

Berat sari kering = (Berat cawan + sari) – (berat cawan kosong)

**Lampiran 13. (**Lanjutan)

**=** 34,4216 gram – 34,3543 gram

=0,0673 gram

= 6,73 %

**Pengulangan 3**

Berat cawan kosong = 27,5891 gram

Berat cawan + sari = 27,6551 gram

Berat sari kering = (Berat cawan + sari) – (berat cawan kosong)

**=** 27,6551 gram – 27,5891 gram

=0,066 gram

= 6,6 %

= 6,54 %

**Perhitungan Hasil Penetapan Kadar Abu Total**

Perhitungan kadar abu total menurut (Depkes RI, 1989):

**Pengulangan 1**

Berat krus kosong = 64, 8753 gram

Berat krus + abu = 65,0053 gram

Berat abu = (berat krus + abu) – (berat krus kosong)

= 65,0053 gram – 64,8753 gram

= 0,13 gram

**Lampiran 13. (**Lanjutan)

= 6,5 %

**Pengulangan 2**

Berat krus kosong = 60,4664 gram

Berat krus + abu = 60,5971 gram

Berat abu = (berat krus + abu) – (berat krus kosong)

= 60,5971 gram – 60,4664 gram

= 0,1307 gram

= 6,53 %

**Pengulangan 3**

Berat krus kosong = 60,1733 gram

Berat krus + abu = 60,3054 gram

Berat abu = (berat krus + abu) – (berat krus kosong)

= 60,3054 gram – 60,1733 gram

= 0,1321 gram

= 6,60 %

= 6,54 %

**Perhitungan Hasil Penetapan Kadar Abu Tidak Larut Asam**

Perhitungan kadar abu tidak larut asam menurut (Depkes RI, 1989):

**Pengulangan 1**

Berat krus kosong = 64,8753 gram

Berat krus + abu tidak larut asam = 64,8884 gram

Berat abu = (berat krus + abu tidak larut asam) – (berat krus kosong)

**Lampiran 13. (**Lanjutan)

= 64,8884 gram – 64,8753 gram

= 0,0131 gram

= 0,655 %

**Pengulangan 2**

Berat krus kosong = 60,4664 gram

Berat krus + abu tidak larut asam = 60,4831 gram

Berat abu = (berat krus + abu tidak larut asam) – (berat krus kosong)

= 60,4831 gram – 60,4664 gram

= 0,0167 gram

= 0,835 %

**Pengulangan 3**

Berat krus kosong = 60,1733 gram

Berat krus + abu tidak larut asam = 60,1880 gram

Berat abu = (berat krus + abu tidak larut asam) – (berat krus kosong)

= 60,1880 gram – 60,1733 gram

= 0,0147 gram

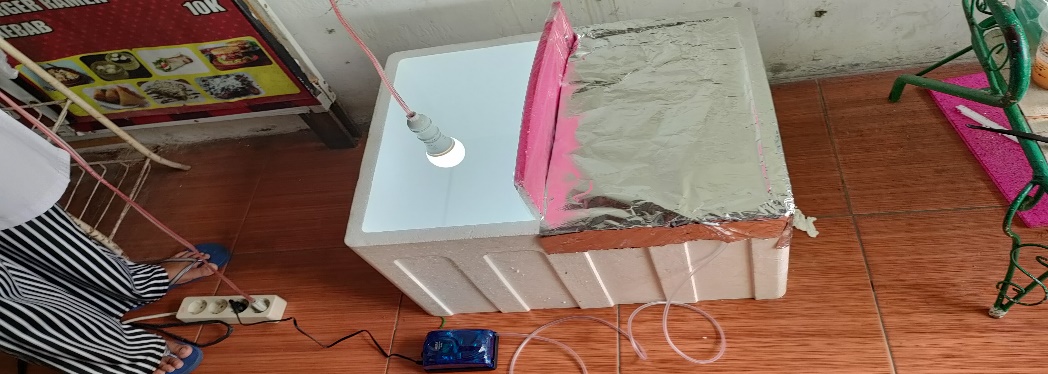
= 0,735 %

= 0,741 %

**Lampiran 14.** Hasil Uji Skrining Fitokimia Daun Matoa *(Pometia pinnata* J.R. Forst & G. Forst*)*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| No. | Golongan Senyawa | Gambar | | Hasil uji | | Keterangan |
| Serbuk | Ekstrak | Serbuk | Ekstrak |
| 1. | Alkaloid | D:\lampiran penelitian\IMG20220321124452.jpg | D:\lampiran penelitian\IMG20220321131139.jpg | + | + | a. Mayer  Terbentuk endapan putih  b. Dragendorff  Terbentuk endapan merah, merah kecoklatan  c. Bouchardat  Terbentuk larutan merah kekuningan |
| 2. | Flavonoid | D:\lampiran penelitian\IMG20220223142400.jpg | D:\lampiran penelitian\IMG20220321152125.jpg | + | + | Terbentuk lapisan merah-kuning pada lapisan alkohol |
| 3. | Saponin | D:\lampiran penelitian\IMG20220223122951.jpg | D:\lampiran penelitian\IMG20220321145240.jpg | + | + | Terbentuk busa yang stabil, dan tidak hilang |
| 4. | Tanin | D:\lampiran penelitian\IMG20220321134042.jpg | D:\lampiran penelitian\IMG20220321135323.jpg | + | + | Terbentuk larutan hijau kehitaman |
| 5. | Steroid/ Triterpenoid | D:\lampiran penelitian\IMG20220321155529.jpg | D:\lampiran penelitian\IMG20220322133642.jpg | + | + | Terbentuk warna biru kehijauan  (steroid) |
| 6. | Glikosida | D:\lampiran penelitian\IMG20220328132916.jpg | D:\lampiran penelitian\IMG20220328132925.jpg | + | + | Terbentuk cincin ungu pada lapisan atas dan bawah |

**Lampiran 15.** Pengujian Sitotoksisitas Ekstrak Etanol Daun Matoa *(Pometia pinnata* J.R. Forst & G. Forst*)* Dengan Metode BSLT

**Penetasan Telur Artemia**

Proses penetasan

Telur artemia

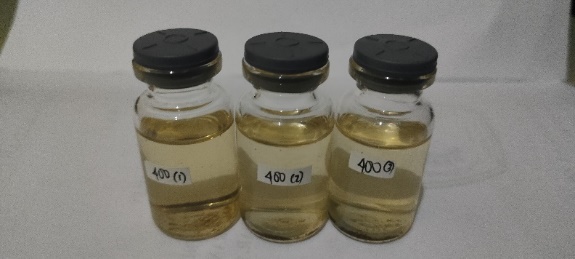
**Pengenceran ekstrak daun matoa dalam beberapa konsentrasi dan pengujian sitotoksisitas**

****

Larutan induk baku

200 ppm

100 ppm

****

500 ppm

400 ppm

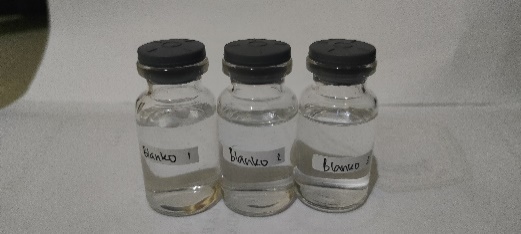
300 ppm

**Lampiran 15.** (Lanjutan)

800 ppm

700 ppm

600 ppm

****

Kontrol Negatif

1000 ppm

900 ppm

**Lampiran 16.** Perhitungan Pembuatan Variasi Pengenceran Ekstrak Etanol Daun Matoa

LIB = 200 mg (200,000 μg / 100 ml) = 2000 μg/ml (2000 ppm)

* + - * 1. 1000 μg/ml = V1.C1 = V2.C2

= x . 2000 μg/ml = 10 ml . 1000 μg/ml

* + - * 1. 900 μg/ml = V1.C1 = V2.C2

= x . 2000 μg/ml = 10 ml . 900 μg/ml

* + - * 1. 800 μg/ml = V1.C1 = V2.C2

= x . 2000 μg/ml = 10 ml . 800 μg/ml

* + - * 1. 700 μg/ml = V1.C1 = V2.C2

= x . 2000 μg/ml = 10 ml . 700 μg/ml

* + - * 1. 600 μg/ml = V1.C1 = V2.C2

= x . 2000 μg/ml = 10 ml . 600 μg/ml

* + - * 1. 500 μg/ml = V1.C1 = V2.C2

= x . 2000 μg/ml = 10 ml . 500 μg/ml

* + - * 1. 400 μg/ml = V1.C1 = V2.C2

= x . 2000 μg/ml = 10 ml . 400 μg/ml

* + - * 1. 300 μg/ml = V1.C1 = V2.C2

= x . 2000 μg/ml = 10 ml . 300 μg/ml

* + - * 1. 200 μg/ml = V1.C1 = V2.C2

= x . 2000 μg/ml = 10 ml . 200 μg/ml

**Lampiran 16.** (Lanjutan)

* + - * 1. 100 μg/ml = V1.C1 = V2.C2

= x . 2000 μg/ml = 10 ml . 100 μg/ml

**Lampiran 17.** Perhitungan LC50 Ekstrak Daun Matoa

Hasil Orientasi

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **No** | **Konsentrasi**  **(μg/mL)** | **Jumlah larva yang mati** | | | **Total** | **Rata-rata kematian larva** | **% Mortalitas** |
| **P1** | **P2** | **P3** |
| 1 | Blanko | 0 | 0 | 0 | 0 | 0 | 0% |
| 2 | 100 | 3 | 3 | 2 | 8 | 2,66 | 26,6% |
| 3 | 200 | 3 | 4 | 3 | 10 | 3,33 | 33,3% |
| 4 | 300 | 4 | 4 | 3 | 11 | 3,66 | 36,6% |
| 5 | 400 | 5 | 4 | 5 | 14 | 4,66 | 46,6% |
| 6 | 500 | 6 | 5 | 5 | 16 | 5,33 | 53,3% |
| 7 | 600 | 7 | 7 | 6 | 20 | 6,66 | 66,6% |
| 8 | 700 | 8 | 7 | 8 | 23 | 7,66 | 76,6% |
| 9 | 800 | 9 | 9 | 9 | 27 | 9 | 90% |
| 10 | 900 | 10 | 10 | 10 | 30 | 10 | 100% |
| 11 | 1000 | 10 | 10 | 10 | 30 | 10 | 100% |

Hasil Pengujian

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No.** | **Konsentrasi (μg/mL)** | **% Mortalitas** | **Log Konsentrasi** | **Nilai Probit** |
| 1 | 100 | 26,6% | 2,0000 | 4,3750 |
| 2 | 200 | 33,3% | 2,3010 | 4,5684 |
| 3 | 300 | 36,6% | 2,4771 | 4,6575 |
| 4 | 400 | 46,6% | 2,6020 | 4,9147 |
| 5 | 500 | 53,3% | 2,6989 | 5,0828 |
| 6 | 600 | 66,6% | 2,7781 | 5,4289 |
| 7 | 700 | 76,6% | 2,8450 | 5,7257 |

**Lampiran 17.** (Lanjutan)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **No.** | **D (C(μg/mL)** | **P (%Mortalitas)** | **X (Log C)** | **Y (Nilai Probit)** | **XY** | **X2** |
| 1 | 100 | 26,6% | 2,0000 | 4,3750 | 8,750 | 4,0000 |
| 2 | 200 | 33,3% | 2,3010 | 4,5684 | 10,5118 | 5,2946 |
| 3 | 300 | 36,6% | 2,4771 | 4,6575 | 11,5370 | 6,1360 |
| 4 | 400 | 46,6% | 2,6020 | 4,9147 | 12,7880 | 6,7704 |
| 5 | 500 | 53,3% | 2,6989 | 5,0828 | 13,7179 | 7,2840 |
| 6 | 600 | 66,6% | 2,7781 | 5,4289 | 15,0820 | 7,7178 |
| 7 | 700 | 76,6% | 2,8450 | 5,7257 | 16,2896 | 8,0940 |
| **Jumlah** | | | ∑X= 17,7021 | ∑Y= 34,753 | ∑XY= 88,6763 | ∑X2=  45,2968 |
| **Rata-rata** | | | 2,5288 | 4,9647 |  |  |

Keterangan :

D = Konsentrasi ekstrak

P = % Mortalitas

X = Log konsentrasi ekstrak

Y = Nilai probit

Persamaan garis regresi linear :

Y = a + bx

Keterangan :

Y = konsentrasi kematian

X = log konsentrasi

**Lampiran 17.** (Lanjutan)

a = 1,4904

b = y - ax

= 4,9647-1,4904 (2,5288)

= 4,9647 – 3,7689

= 1,1958

Nilai LC50 diperoleh dari analog x dimana x merupakan logaritma konsentrasi bahan toksik pada y = 5, yaitu nilai probit 50% hewan uji sehingga persamaan regresi diperoleh y = 1, 4904 + 1,1958

5 = 1,4904 x + 1,1958

5– 1,1958 = 1, 4904 x

3,8042 = 1,4904 x

= 2,5524

Maka nilai LC50 antilog 2,5524 adalah 356,7795 μg/ml

**Lampiran 17.** (Lanjutan)

Kurva Regresi Linier Antara Log Konsentrasi Ekstrak Etanol Daun Matoa dengan Nilai Probit, sebagai berikut :

**Lampiran 18.** Nilai Probit Sesuai dengan Besarnya Persentase Kematian

**Tabel 1.**Tabel Tranformasi Persen-Probit **(Priyanto, 2009)**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Persen kematian (%) | **0,0** | **0,1** | **0,2** | **0,3** | **0,4** | **0,5** | **0,6** | **0,7** | **0,8** | **0,9** |
| **0** | - | 1.0098 | 2.1218 | 2.2522 | 2.3479 | 2.4242 | 2.4879 | 2.5427 | 2.5914 | 2.6344 |
| **1** | 2.6737 | 2.7096 | 2.7429 | 2.7738 | 2.8027 | 2.8299 | 2.8556 | 2.8799 | 2.3031 | 2.9251 |
| **2** | 2.9463 | 2.9665 | 2.9859 | 3.0646 | 3.0226 | 3.0400 | 3.0569 | 3.0732 | 3.0896 | 3.1043 |
| **3** | 3.1192 | 3.1337 | 3.1478 | 3.1616 | 3.1750 | 3.1881 | 3.2009 | 3.2134 | 3.2256 | 3.2376 |
| **4** | 3.2493 | 3.2608 | 3.2721 | 3.2831 | 3.2940 | 3.3046 | 3.3151 | 3.3253 | 3.3354 | 3.3454 |
| **5** | 3.3351 | 3.3668 | 3.3742 | 3.3836 | 3.3028 | 3.4018 | 3.4107 | 3.4195 | 3.4282 | 3.4368 |
| **6** | 3.4452 | 3.4536 | 3.4618 | 3.4694 | 3.4780 | 3.4850 | 3.4937 | 3.5015 | 3.5091 | 3.5167 |
| **7** | 3.5242 | 3.5316 | 3.5380 | 3.5462 | 3.5534 | 3.5605 | 3.5675 | 3.5745 | 3.5813 | 3.5882 |
| **8** | 3.5949 | 3.6016 | 3.6083 | 3.6148 | 3.6213 | 3.6278 | 3.6342 | 3.6405 | 3.6408 | 3.6427 |
| **9** | 3.6692 | 3.6654 | 3.6715 | 3.6775 | 3.6835 | 3.6894 | 3.6953 | 3.7012 | 3.7070 | 3.7127 |
| **10** | 3.7182 | 3.7241 | 3.7298 | 3.7354 | 3.7409 | 3.7464 | 3.7519 | 3.7574 | 3.7628 | 3.7681 |
| **11** | 3.7735 | 3.7784 | 3.7840 | 3.7893 | 3.7945 | 3.7996 | 3.8048 | 3.8099 | 3.8150 | 3.8200 |
| **12** | 3.8250 | 3.8300 | 3.8350 | 3.8399 | 3.8848 | 3.8497 | 3.8545 | 3.8503 | 3.8641 | 3.8689 |
| **13** | 3.8736 | 3.8783 | 3.8830 | 3.8877 | 3.8923 | 3.8969 | 3.9015 | 3.9061 | 3.9107 | 3.9152 |
| **14** | 3.9197 | 3.9242 | 3.9286 | 3.9331 | 3.9375 | 3.9419 | 3.9463 | 3.9506 | 3.9550 | 3.9593 |
| **15** | 3.9636 | 3.9678 | 3.9721 | 3.9763 | 3.9800 | 3.9848 | 3.9890 | 3.9931 | 3.9933 | 4.0014 |
| **16** | 4.0055 | 4.0096 | 4.0137 | 4.0178 | 4.0218 | 4.0259 | 4.0299 | 4.0339 | 4.0379 | 4.0410 |
| **17** | 4.0458 | 4.0408 | 4.0537 | 4.0576 | 4.0615 | 4.0693 | 4.0693 | 4.0731 | 4.0770 | 4.0808 |
| **18** | 4.0846 | 4.0884 | 4.0960 | 4.0960 | 4.0998 | 4.1035 | 4.1073 | 4.1110 | 4.1147 | 4.1184 |
| **19** | 4.1221 | 4.1258 | 4.1331 | 4.1331 | 4.1367 | 4.1404 | 4.1440 | 4.1476 | 4.1512 | 4.1548 |
| **20** | 4.1684 | 4.1019 | 4.1035 | 4.1690 | 4.1726 | 4.1761 | 4.1796 | 4.1831 | 4.1866 | 4.1901 |
| **21** | 4.1936 | 4.1970 | 4.2005 | 4.2039 | 4.2074 | 4.2108 | 4.2142 | 4.2176 | 4.2110 | 4.2244 |
| **22** | 4.2278 | 4.2312 | 4.2345 | 4.2379 | 4.2412 | 4.2446 | 4.2479 | 4.2512 | 4.2546 | 4.2579 |
| **23** | 4.2612 | 4.2644 | 4.2677 | 4.2710 | 4.2743 | 4.2275 | 4.2808 | 4.2840 | 4.2872 | 4.2905 |
| **24** | 4.2937 | 4.2969 | 4.3001 | 4.3033 | 4.3065 | 4.3097 | 4.3129 | 4.3160 | 4.3192 | 4.3324 |
| **25** | 4.3255 | 4.3287 | 4.3318 | 4.3349 | 4.3380 | 4.3412 | 4.3443 | 4.3474 | 4.3505 | 4.3536 |
| **26** | 4.3567 | 4.3597 | 4.3628 | 4.3659 | 4.3869 | 4.3720 | 4.3750 | 4.3781 | 4.3811 | 4.3842 |
| **27** | 4.3872 | 4.3902 | 4.3932 | 4.3962 | 4.3992 | 4.4022 | 4.4052 | 4.4082 | 4.4112 | 4.4142 |
| **28** | 4.4172 | 4.4201 | 4.4231 | 4.4260 | 4.4290 | 4.4319 | 4.4349 | 4.4378 | 4.4408 | 4.4437 |
| **29** | 4.4466 | 4.4405 | 4.4524 | 4.4554 | 4.4583 | 4.4612 | 4.4641 | 4.4670 | 4.4698 | 4.4727 |
| **30** | 4.4756 | 4.4785 | 4.4813 | 4.4842 | 4.4871 | 4.4899 | 4.4928 | 4.4956 | 4.4985 | 4.5013 |
| **31** | 4.5041 | 4.5070 | 4.5098 | 4.5126 | 4.5155 | 4.5183 | 4.2511 | 4.5239 | 4.5267 | 4.5295 |
| **32** | 4.5323 | 4.5351 | 4.5370 | 4.5407 | 4.5435 | 4.5462 | 4.5490 | 4.5518 | 4.5546 | 4.5573 |
| **33** | 4.5601 | 4.5628 | 4.5656 | 4.5684 | 4.5711 | 4.5739 | 4.5766 | 4.5793 | 4.5821 | 4.5848 |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Persen kematian (%) | **0,0** | **0,1** | **0,2** | **0,3** | **0,4** | **0,5** | **0,6** | **0,7** | **0,8** | **0,9** |
| **34** | 4.5875 | 4.5903 | 4.5930 | 4.5957 | 4.5984 | 4.6011 | 4.6039 | 4.6066 | 4.6093 | 4.6120 |
| **35** | 4.6147 | 4.6174 | 4.6201 | 4.6288 | 4.6255 | 4.6281 | 4.6308 | 4.6335 | 4.6362 | 4.6389 |
| **36** | 4.6415 | 4.6442 | 4.6469 | 4.6495 | 4.6522 | 4.6549 | 4.6575 | 4.6602 | 4.6628 | 4.6655 |
| **37** | 4.6681 | 4.6708 | 4.6734 | 4.6761 | 4.6787 | 4.6814 | 4.6840 | 4.6866 | 4.6893 | 4.6919 |
| **38** | 4.6945 | 4.6971 | 4.6998 | 4.7024 | 4.7050 | 4.7078 | 4.7102 | 4.7129 | 4.7155 | 4.7181 |
| **39** | 4.7207 | 4.7233 | 4.7259 | 4.7285 | 4.7311 | 4.7337 | 4.7363 | 4.7389 | 4.7415 | 4.7441 |
| **40** | 4.7467 | 4.7402 | 4.7518 | 4.75f44 | 4.7570 | 4.7595 | 4.7622 | 4.7647 | 4.7673 | 4.7699 |
| **41** | 4.7725 | 4.7750 | 4.7776 | 4.7802 | 4.7827 | 4.7853 | 4.7879 | 4.7902 | 4.7930 | 4.7955 |
| **42** | 4.7981 | 4.8007 | 4.8032 | 4.8058 | 4.8083 | 4.8109 | 4.8134 | 4.8160 | 4.8185 | 4.8211 |
| **43** | 4.8230 | 4.8202 | 4.8278 | 4.8313 | 4.8338 | 4.8363 | 4.8389 | 4.8414 | 4.8440 | 4.8465 |
| **44** | 4.8490 | 4.8516 | 4.8541 | 4.8566 | 4.8592 | 4.8617 | 4.8624 | 4.8668 | 4.8693 | 4.8718 |
| **45** | 4.8743 | 4.8769 | 4.8704 | 4.8819 | 4.8844 | 4.8870 | 4.8895 | 4.8920 | 4.8945 | 4.8970 |
| **46** | 4.8996 | 4.9021 | 4.9046 | 4.9971 | 4.9996 | 4.9122 | 4.9147 | 4.9172 | 4.9197 | 4.9222 |
| **47** | 4.9247 | 4.9272 | 4.9298 | 4.9323 | 4.9348 | 4.9373 | 4.9308 | 4.9423 | 4.9448 | 4.9473 |
| **48** | 4.9408 | 4.9524 | 4.9549 | 4.9574 | 4.9599 | 4.9624 | 4.9649 | 4.9674 | 4.9699 | 4.9724 |
| **49** | 4.9740 | 4.9774 | 4.9799 | 4.9825 | 4.9850 | 4.9876 | 4.9900 | 4.9925 | 4.9950 | 4.9975 |
| **50** | 5.0000 | 5.0025 | 5.0050 | 5.0075 | 5.0100 | 5.0125 | 5.0150 | 5.0175 | 5.0201 | 5.0226 |
| **51** | 5.0251 | 5.0276 | 5.0301 | 5.0326 | 5.0351 | 5.0376 | 5.0401 | 5.0426 | 5.0451 | 5.0476 |
| **52** | 5.0502 | 5.0527 | 5.0552 | 5.0577 | 5.0602 | 5.0627 | 5.0652 | 5.0677 | 5.0702 | 5.0728 |
| **53** | 5.0753 | 5.0778 | 5.0803 | 5.0828 | 5.0853 | 5.0878 | 5.0904 | 5.0929 | 5.0954 | 5.0279 |
| **54** | 5.1004 | 5.1030 | 5.1055 | 5.1080 | 5.1105 | 5.1130 | 5.1156 | 5.1181 | 5.1206 | 5.1231 |
| **55** | 5.1257 | 5.1282 | 5.1307 | 5.1332 | 5.1358 | 5.1383 | 5.1408 | 5.1434 | 5.1459 | 5.1484 |
| **56** | 5.1510 | 5.1535 | 5.1560 | 5.1586 | 5.1614 | 5.1637 | 5.1662 | 5.1687 | 5.1713 | 5.1738 |
| **57** | 5.1764 | 5.1789 | 5.1815 | 5.1840 | 5.1866 | 5.1801 | 5.1917 | 5.1942 | 5.1968 | 5.1993 |
| **58** | 5.2019 | 5.2045 | 5.2070 | 5.2096 | 5.2121 | 5.2147 | 5.2173 | 5.2198 | 5.2224 | 5.2250 |
| **59** | 5.2275 | 5.2301 | 5.2327 | 5.2353 | 5.2378 | 5.2404 | 5.2430 | 5.2468 | 5.2482 | 5.2508 |
| **60** | 5.2533 | 5.2359 | 5.2585 | 5.2611 | 5.2637 | 5.2663 | 5.2689 | 5.2715 | 5.2741 | 5.2767 |
| **61** | 5.2793 | 5.2819 | 5.2845 | 5.2871 | 5.2808 | 5.2024 | 5.2050 | 5.2976 | 5.3002 | 5.3029 |
| **62** | 5.3055 | 5.3081 | 5.3107 | 5.3134 | 5.3160 | 5.3186 | 5.3213 | 5.3239 | 5.3266 | 5.3202 |
| **63** | 5.3319 | 5.3345 | 5.3372 | 5.3398 | 5.3425 | 5.3451 | 5.3478 | 5.3505 | 5.3531 | 5.3658 |
| **64** | 5.3585 | 5.3811 | 5.3638 | 5.3665 | 5.3692 | 5.3719 | 5.3745 | 5.3772 | 5.3799 | 5.3826 |
| **65** | 5.3853 | 5.3380 | 5.8007 | 5.3934 | 5.3961 | 5.3980 | 5.4016 | 5.4043 | 5.4070 | 5.4097 |
| **66** | 5.4125 | 5.4152 | 5.4170 | 5.4207 | 5.4234 | 5.4261 | 5.4289 | 5.4316 | 5.4344 | 5.4372 |
| **67** | 5.4399 | 5.4427 | 5.4454 | 5.4482 | 5.4510 | 5.4638 | 5.4565 | 5.4593 | 5.4621 | 5.4649 |
| **68** | 5.4677 | 5.4705 | 5.4733 | 5.4761 | 5.4780 | 5.4817 | 5.4845 | 5.4874 | 5.4002 | 5.4930 |
| **69** | 5.4959 | 5.4987 | 5.5015 | 5.5044 | 5.5072 | 5.5101 | 5.5129 | 5.5158 | 5.5187 | 5.3215 |

**Lampiran 18.** (Lanjutan)

**Lampiran 18.** (Lanjutan)

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Persen kematian (%) | **0,0** | **0,1** | **0,2** | **0,3** | **0,4** | **0,5** | **0,6** | **0,7** | **0,8** | **0,9** |
| **70** | 5.5244 | 5.5273 | 5.5302 | 5.5330 | 5.5350 | 5.5388 | 5.5417 | 5.5446 | 5.5476 | 5.6505 |
| **71** | 5.5534 | 5.5563 | 5.5592 | 5.5622 | 5.5651 | 5.5681 | 5.5710 | 5.5740 | 5.5760 | 5.7990 |
| **72** | 5.5828 | 5.5858 | 5.5888 | 5.5918 | 5.5948 | 5.5978 | 5.6008 | 5.6038 | 5.6068 | 5.6098 |
| **73** | 5.6128 | 5.6158 | 5.6189 | 5.6219 | 5.6250 | 5.6280 | 5.6311 | 5.6341 | 5.6372 | 5.6403 |
| **74** | 5.6435 | 5.6464 | 5.6405 | 5.6526 | 5.6557 | 5.6588 | 5.6620 | 5.6651 | 5.6682 | 5.6713 |
| **75** | 5.6745 | 5.6776 | 5.6808 | 5.6840 | 5.6871 | 5.6903 | 5.6935 | 5.6967 | 5.6998 | 5.7031 |
| **76** | 5.7083 | 5.7095 | 5.7128 | 5.7160 | 5.7192 | 5.7225 | 5.7257 | 5.7200 | 5.7323 | 5.7356 |
| **77** | 5.7388 | 5.7424 | 5.7454 | 5.7488 | 5.7521 | 5.7554 | 5.7588 | 5.7621 | 5.7666 | 5.7688 |
| **78** | 5.7722 | 5.7756 | 5.7796 | 5.7824 | 5.7858 | 5.7892 | 5.7926 | 5.7961 | 5.7995 | 5.8030 |
| **79** | 5.8834 | 5.8099 | 5.8134 | 5.8169 | 5.8204 | 5.8239 | 5.8274 | 5.8310 | 5.8345 | 5.8381 |
| **80** | 5.8416 | 5.8452 | 5.8488 | 5.8524 | 5.8560 | 5.8596 | 5.8633 | 5.8669 | 5.8705 | 5.8742 |
| **81** | 5.8779 | 5.8816 | 5.8853 | 5.8890 | 5.8927 | 5.8965 | 5.9002 | 5.9040 | 5.9078 | 5.9116 |
| **82** | 5.9154 | 5.9192 | 5.9230 | 5.9269 | 5.9307 | 5.9346 | 5.9386 | 5.9424 | 5.9463 | 5.9502 |
| **83** | 5.9540 | 5.9581 | 5.9624 | 5.9661 | 5.9701 | 5.9471 | 5.9782 | 5.9822 | 5.9863 | 5.9904 |
| **84** | 5.9945 | 5.9986 | 6.0027 | 6.0069 | 6.0110 | 6.0152 | 5.0194 | 6.0273 | 6.0279 | 6.0322 |
| **85** | 6.0364 | 6.0407 | 6.0450 | 6.0494 | 6.0537 | 6.0581 | 6.0625 | 6.0669 | 6.0714 | 6.0758 |
| **86** | 6.0803 | 6.0818 | 6.0893 | 6.0939 | 6.0985 | 6.1031 | 6.1077 | 6.1123 | 6.1170 | 6.1217 |
| **87** | 6.1264 | 6.1311 | 6.1359 | 6.1407 | 6.1455 | 6.1503 | 6.1552 | 6.1601 | 6.1650 | 6.1700 |
| **88** | 6.1750 | 6.1800 | 6.1856 | 6.1901 | 6.1952 | 6.2004 | 6.2055 | 6.2107 | 6.2160 | 6.2212 |
| **89** | 6.2205 | 6.2319 | 6.2372 | 6.2426 | 6.2481 | 6.2536 | 6.2591 | 6.2646 | 6.2702 | 6.2750 |
| **90** | 6.2816 | 6.2873 | 6.2936 | 6.2988 | 6.3047 | 6.3106 | 6.3165 | 6.3225 | 6.3285 | 6.3346 |
| **91** | 6.3408 | 6.3469 | 6.3532 | 6.3595 | 6.3658 | 6.3722 | 6.3787 | 6.3852 | 6.3917 | 6.3984 |
| **92** | 6.4031 | 6.4118 | 6.4187 | 6.4255 | 6.4325 | 6.4395 | 6.4466 | 6.4538 | 6.4611 | 6.4684 |
| **93** | 6.4758 | 6.4833 | 6.4909 | 6.4985 | 6.5063 | 6.5141 | 6.5220 | 6.5301 | 6.5382 | 6.5464 |
| **94** | 6.8548 | 6.5632 | 6.5718 | 6.5805 | 6.5893 | 6.5982 | 6.6078 | 6.6164 | 6.6258 | 6.6352 |
| **95** | 6.6449 | 6.6546 | 6.6646 | 6.6747 | 6.6849 | 6.6954 | 6.7060 | 6.7169 | 6.7279 | 6.7302 |
| **96** | 6.7507 | 6.7624 | 6.7784 | 6.7806 | 6.7991 | 6.8119 | 6.8260 | 6.8084 | 6.8522 | 6.8663 |
| **97** | 6.8808 | 6.8957 | 6.9110 | 6.9268 | 6.9431 | 6.9600 | 6.9774 | 6.9954 | 7.0141 | 7.0335 |
| **98** | 7.0537 | 7.0558 | 7.0579 | 7.0660 | 7.0621 | 7.0612 | 7.0663 | 7.0684 | 7.0706 | 7.0727 |
| **98.1** | 7.0749 | 7.0770 | 7.0792 | 7.0814 | 7.0836 | 7.0858 | 7.0880 | 7.0902 | 7.0924 | 7.0947 |
| **98.2** | 7.0969 | 7.0992 | 7.1015 | 7.1038 | 7.1061 | 7.1084 | 7.1107 | 7.1130 | 7.1154 | 7.1177 |
| **98.3** | 7.1204 | 7.1224 | 7.1248 | 7.1272 | 7.1297 | 7.1321 | 7.1345 | 7.1370 | 7.1384 | 7.1419 |
| **98.4** | 7.1444 | 7.1469 | 7.1494 | 7.1520 | 7.1545 | 7.1571 | 7.1996 | 7.1622 | 7.1648 | 7.1675 |
| **98.5** | 7.1701 | 7.1727 | 7.1754 | 7.1781 | 7.1808 | 7.1835 | 7.1862 | 7.1890 | 7.1917 | 7.1945 |
| **98.6** | 7.1973 | 7.2001 | 7.2029 | 7.2058 | 7.2086 | 7.2115 | 7.2144 | 7.2173 | 7.2203 | 7.2232 |
| **98.7** | 7.2262 | 7.2292 | 7.2322 | 7.2353 | 7.2383 | 7.2414 | 7.2445 | 7.2476 | 7.2508 | 7.2539 |

**Lampiran 18.** (Lanjutan)

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Persen kematian (%) | **0,0** | **0,1** | **0,2** | **0,3** | **0,4** | **0,5** | **0,6** | **0,7** | **0,8** | **0,9** |
| **98.8** | 7.2374 | 7.2663 | 7.2636 | 7.2668 | 7.2701 | 7.2734 | 7.2768 | 7.2801 | 7.2835 | 7.2869 |
| **98.9** | 7.2904 | 7.2938 | 7.2973 | 7.3009 | 7.3044 | 7.3080 | 7.3116 | 7.3152 | 7.3189 | 7.3226 |
| **98** | 7.3263 | 7.3301 | 7.3339 | 7.3378 | 7.3416 | 7.3455 | 7.3495 | 7.3535 | 7.3575 | 7.3615 |
| **99.1** | 7.3656 | 7.3698 | 7.3739 | 7.3781 | 7.3824 | 7.3867 | 7.3911 | 7.3954 | 7.3999 | 7.4044 |
| **99.2** | 7.4059 | 7.4135 | 7.4181 | 7.4228 | 7.4276 | 7.4324 | 7.4372 | 7.4422 | 7.4474 | 7.4522 |
| **99.3** | 7.4373 | 7.4624 | 7.4677 | 7.4730 | 7.4783 | 7.4838 | 7.4893 | 7.4940 | 7.5006 | 7.5063 |
| **99.4** | 7.5121 | 7.5181 | 7.5241 | 7.5302 | 7.5364 | 7.5427 | 7.5401 | 7.5550 | 7.5622 | 7.5690 |
| **99.5** | 7.5758 | 7.5828 | 7.5890 | 7.5972 | 7.6045 | 7.6121 | 7.6107 | 7.6276 | 7.6356 | 7.6437 |
| **99.6** | 7.6521 | 7.6606 | 7.6693 | 7.6783 | 7.6874 | 7.6968 | 7.7065 | 7.7104 | 7.7266 | 7.7370 |
| **99.7** | 7.7478 | 7.7589 | 7.7703 | 7.7822 | 7.7944 | 7.8070 | 7.8202 | 7.8338 | 7.8480 | 7.8027 |
| **99.8** | 7.8782 | 7.8943 | 7.9112 | 7.9299 | 7.9478 | 7.9677 | 7.9889 | 8.0115 | 8.0357 | 8.0618 |
| **99.9** | 8.0902 | 8.1214 | 8.1550 | 8.1847 | 8.2380 | 8.2905 | 8.3528 | 8.4316 | 8.5401 | 8.7190 |