**Lampiran 1.** Bagan Alir

Skema Pembuatan Media

1. Pembuatan Media LB

Timbang 13 g media LB

Larutkan dalam 1000 mL aquadest dalam erlemeyer

Masak sampai mendidih di atas *hot plate*, aduk dengan batang pengaduk

Kemudian sterilkan ke dalam autoclave pada suhu 121°C selama 15 menit

Media LB

**Lampiran 1.** (Lanjutan)

1. Pembuatan Media EMBA

Timbang 37,2 g Media EMBA

Masukkan ke dalam erlemeyer 1000 mL dan tambahkan aquadest hingga 1000 mL

Masak sampai mendidih di atas *hot plate*, aduk dengan batang pengaduk

Kemudian sterilkan ke dalam autoclave pada suhu 121°C selama 15 menit

Media EMBA di tuangkan ke dalam petridis steril secara aseptik

Media EMBA

**Lampiran 1.** (Lanjutan)

1. Pembuata Media NA

Timbang 20 g Media NA

Masukkan ke dalam erlemeyer 1000mL dan tambahkan aquadest hingga 1000 mL

Masak sampai mendidih di atas *hot plate*, aduk dengan batang pengaduk

Kemudian sterilkan ke dalam autoclave pada suhu 121°C selama 15 menit

Media NA

**Lampiran 1.** (Lanjutan)

1. Pembuatan Media SIM

Timbang 36,22 g Media SIM

Masukkan ke dalam erlemeyer 1000 mL dan tambahkan aquadest hingga 1000 mL

Masak sampai mendidih di atas *hot plate*, aduk dengan batang pengaduk

Kemudian sterilkan ke dalam autoclave pada suhu 121°C selama 15 menit

Media SIM

**Lampiran 1.** (Lanjutan)

1. Pembuatan Media MR-VP

Timbang 17 g Media MR-VP

Masukkan ke dalam erlemeyer 1000 mL dan tambahkan aquadest hingga 1000 mL

Masak sampai mendidih di atas *hot plate*, aduk dengan batang pengaduk

Kemudian sterilkan ke dalam autoclave pada suhu 121°C selama 15 menit

Media MR-VP

**Lampiran 1.** (Lanjutan)

1. Pembuatan Media SCA

Timbang 24,2 g Media SCA

Masukkan ke dalam erlemeyer 1000 mL dan tambahkan aquadest hingga 1000 mL

Masak sampai mendidih di atas *hot plate*, aduk dengan batang pengaduk

Kemudian sterilkan ke dalam autoclave pada suhu 121°C selama 15 menit

Diambil dari autovlave, kemudian tabung reaksi tersebut di letakkan secara miring

Media SCA

**Lampiran 1.** (Lanjutan)

1. Struktur kerja ALT

25 ml Sampel

Diencerkan dengan 225 ml *Lactose Broth*  (LB), dan dilakukan pengenceran bertingkat

Dimasukkan 1 ml dari setiap pengenceran kedalam cawan petri

Dituangkan 15 ml media PCA kedalam cawan petri

Media PCA + Pengenceran sampel

Inkubasi 24 jam pada suhu 37°C dengan posisi terbalik

Diamati koloni yang tumbuh

Dicatat dan dilakukan perhitungan

Koloni Bakteri

**Lampiran 1.** (Lanjutan)

1. Struktur Kerja MPN Praduga

25 ml Sampel

Diencerkan dengan 225 ml *Lactose Broth*  (LB), dan dilakukan pengenceran bertingkat

Setiap pengenceran dibuat 3 tabung reaksi berisi 9 ml MCB ( *Mac Conkey Broth*) dilengkapi tabung durham

Dimasukkan 1 ml larutan pengenceran bertingkat ke semua tabung

Media MCB

Inkubasi 24-48 jam pada suhu 37°C

Diamati pembentukan gas dalam tabung durham

(-) Tidak terbentuk gas di dalam tabung

(+) Terbentuknya gas di dalam tabung durham

**Lampiran 1.** (Lanjutan)

Struktur Kerja MPN Penegasan

Tabung Positif MPN Praduga

Dimasukkan 1 sengkelit kedalam tabung berisi10 ml media BGLB

Media BGLB

(-) Tidak terbentuk gas di dalam tabung

(+) Terbentuknya gas di dalam tabung durham

Inkubasi 24-48 jam pada suhu 37°C

Diamati pembentukan gas dalam tabung durham

**Lampiran 1.** (Lanjutan)

1. Struktur Kerja Identifikasi bakteri *Escherichia coli* pada saus cabai

Tabung positif MPN Penegasan

Di inokulasikan

Diinkubasikan selama 24 jam pada suhu 37°C

Media EMBA

(+) Tumbuh koloni yang menunjukkan kilap logam dan bintik biru kehijauan

(-) Tidak tumbuh koloni yang menunjukkan kilap logam dan bintik biru kehijauan

Media NA

Diinkubasikan selama 24 jam pada suhu 37°C

Uji Citrate

Uji Indol

Uji MR

Uji VP

Pewarnaan gram

Media SCA (-)

Media VP (-)

Media SIM (+)

1. Berwarna merah

Media MR (+)

1. Berbentuk basil/batang

Positif: warna biru

Negatif: warna hijau

Positif: warna merah muda-merah tua

Negatif: warna tidak berubah

Positif: warna merah

Negatif: warna kuning

Positif: warna merah muda

**Lampiran 2.** Sampel yang diteliti

|  |  |
| --- | --- |
| C:\Users\Asus\Downloads\WhatsApp Image 2023-05-26 at 12.29.47 (1).jpegSaus Bakso Bakar | C:\Users\Asus\Downloads\WhatsApp Image 2023-06-13 at 14.26.43.jpegSaus Dimsum |
| C:\Users\Asus\Downloads\WhatsApp Image 2023-05-26 at 12.29.47.jpegSaus Telur Gulung | C:\Users\Asus\Downloads\WhatsApp Image 2023-05-26 at 12.29.46 (1).jpegSaus Siomay |
| C:\Users\Asus\Downloads\WhatsApp Image 2023-05-26 at 12.29.46.jpegSaus Tempura |  |

**Lampiran 3.** Alat Dan Bahan

1. Alat

|  |  |  |  |
| --- | --- | --- | --- |
| Oven | Autoclaf | Timbangan Analitik | Colony Counter |
| Mikropipet | Vortex | Object Glass | Inkubator |

1. Bahan

|  |  |  |  |
| --- | --- | --- | --- |
| Aquades | Lugol | Cristal violet | Safranin |
| WhatsApp Image 2023-05-22 at 10.40.21Media SCA | Etanol | WhatsApp Image 2023-05-22 at 12.00.06 (1)Media SIM | WhatsApp Image 2023-05-22 at 10.40.22Media MCB |

**Lampiran 3.** (Lanjutan)

|  |  |  |  |
| --- | --- | --- | --- |
| Alfa NaftolWhatsApp Image 2023-05-22 at 12.00.04 (1) | KOH 40%WhatsApp Image 2023-05-22 at 12.00.04 | Media PCAWhatsApp Image 2023-05-22 at 12.00.05 | Media LB**lb** |
| Media NA**media bglbb** | **emba**Media EMBA | **media na**Media BGLB |  |

**Lampiran 4.** Prosedur Penelitian

|  |  |
| --- | --- |
| 1. Sterilisasi Alat |  |
| 1. Penimbangan Media |  |
| 1. Pemanasan Media | WhatsApp Image 2023-05-15 at 08.18.07 |
| 1. Pengambilan Sampel Di Sekitar SMK Kota Medan | dimsumbakso bakarSaus Dimsum Saus Bakso Bakar |
|  | empuraWhatsApp Image 2023-03-10 at 21.38.43Saus Siomay Saus Tempura  elur gulungSaus Telur Gulung |
| 1. Pengenceran Sampel |  |
| 1. Pengujian ALT (Angka Lempeng Total) |  |
| 1. Pengujian MPN (*Most Probable Number*) | ddb9d064-0d54-444b-8396-cb17f5c95209 |
| 1. Pengujian Pada Media EMBA |  |
| 1. Uji Pewarnaan Gram Bakteri |  |
| 1. Uji IMVIC (Indol, MR, VP, Citrate) | WhatsApp Image 2023-05-20 at 23.09.18 |

**Lampiran 5. Hasil Penelitian**

1. ALT(Angka Lempeng Total)

|  |  |
| --- | --- |
| SBB | STG |
| SSO | STP |
| SDS |  |

1. MPN ( *Most Probable Number*) Praduga

|  |  |  |
| --- | --- | --- |
| WhatsApp Image 2023-05-20 at 23.58.04 (2)SBB | WhatsApp Image 2023-05-20 at 23.58.04 (1)STG | WhatsApp Image 2023-05-20 at 23.58.04SSO |
| WhatsApp Image 2023-05-20 at 23.58.05STP | WhatsApp Image 2023-05-20 at 23.57.03SDS |

1. MPN ( *Most Probable Number*) Penegasan

|  |  |  |
| --- | --- | --- |
| WhatsApp Image 2023-05-21 at 00.08.03SBB | WhatsApp Image 2023-05-21 at 00.08.05STG | WhatsApp Image 2023-05-21 at 00.08.04SSO |
| WhatsApp Image 2023-05-21 at 00.08.05 (1)STP | WhatsApp Image 2023-05-21 at 00.08.04 (1)SDS |

**Lampiran 5.** (Lanjutan)

1. Identidikasi Pada Media EMBA dan NA

(Terbentuk koloni berwarna hijau metalik pada permukaan media EMBA)

|  |  |  |
| --- | --- | --- |
| WhatsApp Image 2023-05-21 at 00.17.05SBB | WhatsApp Image 2023-05-18 at 00.46.40STG | WhatsApp Image 2023-05-18 at 00.47.55SSO |
| WhatsApp Image 2023-05-18 at 00.53.48STP | WhatsApp Image 2023-05-18 at 00.45.06SDS |

Peremajaan pada media NA

|  |  |  |
| --- | --- | --- |
| WhatsApp Image 2023-04-04 at 20.15.02WhatsApp Image 2023-04-04 at 20.15.03SBB | STG | WhatsApp Image 2023-04-04 at 20.15.02 (1)SSO |
| WhatsApp Image 2023-04-04 at 20.15.01 (1)STP | WhatsApp Image 2023-04-04 at 20.15.01SDS |

Uji IMVIC

*Indol*( Terbentuk cincin kuning pada permukaan media)

|  |  |  |
| --- | --- | --- |
| *WhatsApp Image 2023-04-04 at 21.05.58 (1)*SBB | *WhatsApp Image 2023-04-04 at 21.05.57 (1)*STG | *WhatsApp Image 2023-04-04 at 21.05.58 (2)*SSO |
| *WhatsApp Image 2023-04-04 at 21.05.58*STP | *WhatsApp Image 2023-04-04 at 21.05.57*SDS |

MR (Methyl Red)

|  |  |  |
| --- | --- | --- |
| WhatsApp Image 2023-04-04 at 21.32.22SBB | WhatsApp Image 2023-04-04 at 21.27.35 (1)STG | WhatsApp Image 2023-04-04 at 21.27.36 (1)SSO |
| WhatsApp Image 2023-04-04 at 21.27.35STP | WhatsApp Image 2023-04-04 at 21.27.36SDS |

VP (Voges Proskauer)

|  |  |  |
| --- | --- | --- |
| WhatsApp Image 2023-04-04 at 21.51.46 (2)SBB | WhatsApp Image 2023-04-04 at 21.51.46STG | WhatsApp Image 2023-04-04 at 21.51.46 (1)SSO |
| WhatsApp Image 2023-04-04 at 21.51.47 (1)STP | WhatsApp Image 2023-04-04 at 21.51.47SDS |  |

Citrate

|  |  |  |
| --- | --- | --- |
| WhatsApp Image 2023-04-04 at 22.10.20C:\Users\Asus\Documents\skripsi lisda\file skripsi\dokumentasi penelitian\Dok UL4\UJI Citrate\WhatsApp Image 2023-04-04 at 22.04.48.jpegSBB | WhatsApp Image 2023-04-04 at 22.10.20 (1)STG | SSO |
| WhatsApp Image 2023-04-04 at 22.10.21 (1)STP | WhatsApp Image 2023-04-04 at 22.10.21SDS |  |

**Lampiran 6. Perhitungan ALT dan MPN**

1. **Perhitungan ALT**

Nilai ALT (koloni/g) =

**Pengulangan 1**

* SDS 10̄¹ = 36

=

=

= 36 x 101 koloni/g

= 3,6 x 102 koloni/g

* SDS 10-2 = 110 koloni

=

=

= 110 x 10² koloni/g

SDS 10-3 = 37 koloni

=

=

= 37 x 10³ koloni/g

= 370 x 102 koloni/g

= 161,2 x 10² koloni/g

= 1,6 x 10⁴ koloni/g

**Lampiran 6.** (Lanjutan)

SBB 10-1 = 72 koloni

=

=

= 72 x 101 koloni/g

= 7,2 x 102 koloni/g

SBB 10-2 = 34 koloni

=

=

= 34 x 102 koloni/g

SBB 10-3 = 25 koloni

=

=

= 25 x 10³ koloni/g

= 250 x 102 koloni/g

= 97 x 10² koloni/g

= 0,9 x 10⁴ koloni/g

* STG 10-1 = 25 koloni (TFTC)
* STG 10-2 = 112 koloni

**Lampiran 6.** (Lanjutan)

=

=

= 112 x 102 koloni/g

STG 10-3 = 82 koloni

=

=

= 82 x 10³ koloni/g

= 820 x 102 koloni/g

= 466 x 10² koloni/g

= 4,6 x 10⁴ koloni/g

* SSO 10-1 = 82 koloni

=

=

= 82 x 101 koloni/g

= 8,2 x 102 koloni/g

SSO 10-2 = 66 koloni

=

=

**Lampiran 6.** (Lanjutan)

= 66 x 102 koloni/g

SSO 10-3 = 29 koloni (TFTC)

= 37,1 x 10² koloni/g

= 0,3 x 10⁴ koloni/g

* STP 10-1 = 54 koloni

=

=

= 54 x 101 koloni/g

= 5,4 x 102 koloni/g

STP 10-2 = 61 koloni

=

=

= 61 x 102 koloni/g

STP 10-3 = 34 koloni

=

=

= 34 x 10³ koloni/g

= 340 x 102 koloni/g

**Lampiran 6.** (Lanjutan)

= 135,4 x 10² koloni/g = 1,3 x 10⁴ koloni/g

**Pengulangan 2**

* SDS 10̄¹ = 65 koloni

=

=

= 65 x 101 koloni/g

= 6,5 x 102 koloni/g

SDS 10-2 = 156 koloni

=

=

= 156 x 102 koloni/g

SDS 10-3 = 101 koloni

=

=

= 101 x 10³ koloni/g

= 1010 x 102 koloni/g

= 394,1 x 10²koloni/g

= 3,94 x 10⁴ koloni/g

**Lampiran 6.** (Lanjutan)

* SBB 10-1 = 40 koloni

=

=

= 40 x 101 koloni/g

= 4 x 102 koloni/g

SBB 10-2 = 62 koloni

=

=

= 6,2 x 102 koloni/g

SBB 10-3 = 50 koloni

=

=

= 50 x 10³ koloni/g

= 500 x 102 koloni/g

= 188,6 x 10² koloni/g

= 1,8 x 10⁴ koloni/ g

* STG 10-1 = 251 koloni

**Lampiran 6.** (Lanjutan)

=

=

= 251 x 101 koloni/g

= 25,1x 102 koloni/g

STG 10-2 = 102 koloni

=

=

= 102 x 102 koloni/g

STG 10-3 = 207 koloni

=

=

= 207 x 10³ koloni/g

= 2070 x 102 koloni/g

= 732,3 x 10²koloni/g

= 7,3 x 10⁴ koloni/g

* SSO 10-1 = 111 koloni

=

=

**Lampiran 6.** (Lanjutan)

= 111 x 101 koloni/g

= 11,1 x 102 koloni/g

SSO 10-2 = 124 koloni

=

=

= 124 x 102 koloni/g

SSO 10-3 = 105 koloni

=

=

= 105 x 10³ koloni/g

= 1050 x 102 koloni/g

= 395 x 10²koloni/g

= 3,9 x 10⁴ koloni/g

* STP 10-1 = 84 koloni

=

=

= 84 x 101 koloni/g

= 8,4 x 102 koloni/g

STP 10-2 = 86 koloni

**Lampiran 6.** (Lanjutan)

=

=

= 86 x 102 koloni/g

STP 10-3 = 102 koloni

=

=

= 102 x 10³ koloni/g

= 1020 x 102 koloni/g

= 374,8 x 10²koloni/g

= 3,7 x 10⁴ koloni/g

**Pengulangan 3**

* SDS 10̄¹ = 185 koloni

=

=

= 185 x 101 koloni/g

= 18,5 x 102 koloni/g

SDS 10-2 = 29 koloni ( TFTC)

* SDS 10-3 = 72 koloni

=

**Lampiran 6.** (Lanjutan)

=

= 72 x 10³ koloni/g

= 720 x 102 koloni/g

= 369,2 x 10²koloni/g

= 3,6 x 10⁴ koloni/g

* SBB 10-1 = 3 koloni ( TFTC)
* SBB 10-2 = 5 koloni ( TFTC)
* SBB 10-3 = 13 koloni ( TFTC)
* STG 10-1 = 37 koloni

=

=

= 37 x 101 koloni/g

= 3,7 x 102 koloni/g

STG 10-2 = 27 koloni ( TFTC)

* STG 10-3 = 28 koloni ( TFTC)

Rata-rata = 37 x 10¹ koloni/g

=0,03 x 10⁴ koloni/g

* SSO 10-1 = 231 koloni

=

**Lampiran 6.** (Lanjutan)

=

= 231 x 101 koloni/g

= 23,1 x 102 koloni/g

SSO 10-2 = 31 koloni

=

=

= 31 x 102 koloni/g

* SSO 10-3 = 77 koloni

=

=

= 77 x 10³ koloni/g

= 770 x 102 koloni/g

= 412 x 10²koloni/g

= 4,1 x 10⁴ koloni/g

* STP 10-1 = 42 koloni

=

=

= 42 x 101 koloni/g

**Lampiran 6.** (Lanjutan)

= 4,2 x 102 koloni/g

STP 10-2 = 46 koloni

=

=

= 46 x 102 koloni/g

* STP 10-3 = 32 koloni

=

=

= 32 x 10³ koloni/g

= 320 x 102 koloni/g

= 123,4 x 10²koloni/g

= 1,2 x 10⁴ koloni/g

**Pengulangan 4**

* SDS 10̄¹ = 197 koloni

=

=

= 197 x 101 koloni/g

= 19,7 x 102 koloni/g

**Lampiran 6.** (Lanjutan)

* SDS 10-2 = 69 koloni

=

=

= 69 x 102 koloni/g

* SDS 10-3 = 25 koloni (TFTC)

= 44,3 x 10²koloni/g

= 0,4 x 10⁴ koloni/g

* SBB 10-1 = >300 koloni (TNTC)
* SBB 10-2 = 51 koloni

=

=

= 51 x 102 koloni/g

SBB 10-3 = 31 koloni

=

=

= 31 x 10³ koloni/g

= 310 x 102 koloni/g

= 180,5 x 10²koloni/g

**Lampiran 6.** (Lanjutan)

= 1,8 x 10⁴ koloni/g

* STG 10-1 = 251 koloni

=

=

= 251 x 101 koloni/g

= 25,1 x 102 koloni/g

* STG 10-2 = >300 koloni (TNTC)
* STG 10-3 = 98 koloni

=

=

= 98 x 10³ koloni/g

= 980 x 102 koloni/g

= 502,5 x 10²koloni/g

= 5,0 x 10⁴ koloni/g

* SSO 10-1 =>300 koloni (TNTC)
* SSO 10-2 = >300 koloni (TNTC)
* SSO 10-3 = 51 koloni

=

**Lampiran 6.** (Lanjutan)

=

= 51 x 10³ koloni/g

= 510 x 102 koloni/g

Rata-rata = 510 x 10² koloni/g

= 5,1 x 10⁴ koloni/g

* STP 10-1 = 380 koloni (TFTC)
* STP 10-2 = 320 koloni (TFTC)
* STP 10-3 = 275 koloni

=

=

= 275 x 10³ koloni/g

= 2750 x 102 koloni/g

Rata-rata = 750 x 10² koloni/g

= 27,5 x 10⁴ koloni/g

**Pengulangan 5**

* SDS 10̄¹ = 87 koloni

=

=

= 87 x 101 koloni/g

= 8,7 x 102 koloni/g

**Lampiran 6.** (Lanjutan)

SDS 10-2 = 105 koloni

=

=

= 105 x 102 koloni/g

SDS 10-3 = 76 koloni

=

=

= 76 x 10³ koloni/g

= 760 x 102 koloni/g

= 294,5 x 10²koloni/g

= 2,9 x 10⁴ koloni/g

* SBB 10-1 = > 300 koloni ( TNTC)
* SBB 10-2 = 105 koloni

=

=

= 105 x 102 koloni/g

SBB 10-3 = 97 koloni

=

**Lampiran 6.** (Lanjutan)

=

= 97 x 10³ koloni/g

= 970 x 102 koloni/g

= 537,5 x 10²koloni/g

= 5,3 x 10⁴ koloni/g

* STG 10-1 = 35 koloni

=

=

= 35 x 101 koloni/g

= 3,5 x 102 koloni/g

* STG 10-2 = 41 koloni

=

=

= 41 x 102 koloni/g

STG 10-3 = >300 koloni (TNTC)

= 22,2 x 10²koloni/g

= 0,2x 10⁴ koloni/g

* SSO 10-1 = 69 koloni

**Lampiran 6.** (Lanjutan)

=

=

= 69 x 101 koloni/g

= 6,9 x 102 koloni/g

* SSO 10-2 = >300 koloni (TNTC)
* SSO 10-3 = 51 koloni

=

=

= 51 x 10³ koloni/g

= 510 x 102 koloni/g

= 289,5 x 10²koloni/g

= 2,8 x 10⁴ koloni/g

* STP 10-1 = 40 koloni

=

=

= 40 x 101 koloni/g

= 4 x 102 koloni/g

STP 10-2 = 31 koloni

**Lampiran 6.** (Lanjutan)

=

=

= 31 x 102 koloni/g

* STP 10-3 = 30 koloni

=

=

= 30 x 10³ koloni/g

= 300 x 102 koloni/g

= 111,6 x 10²koloni/g

= 1,1 x 10⁴ koloni/g

1. **Perhitungan MPN**

**Pengulangan 1**

* SDS= (3.2.1) ≈ Nilai indeks 150

=

= 150 x 10

= 1500 / ml

* SBB = ( 3.3.3 )≈ Nilai indeks ≥ 1100

=

= 1100 x 10

**Lampiran 6.** (Lanjutan)

= >11000 / ml

* STG = ( 3.3.3 )≈ Nilai indeks ≥ 1100

=

= 1100 x 10

= >11000 / ml

* SSO = ( 3.3.3 )≈ Nilai indeks ≥ 1100

=

= 1100 x 10

= >11000 / ml

* STP = ( 3.3.3 )≈ Nilai indeks ≥ 1100

=

= 1100 x 10

= >11000 / ml

**Pengulangan 2**

* SDS = (3.2.1) ≈ Nilai indeks 150

=

= 150 x 10

= 1500 / ml

* SBB = (2.2.2) ≈ Nilai indeks 35

=

= 35 x 10

= 350 / ml

* STG = ( 3.3.3 )≈ Nilai indeks ≥ 1100

**Lampiran 6.** (Lanjutan)

=

= 1100 x 10

= >11000 / ml

* SSO = ( 2.2.2 )≈ Nilai indeks 35

=

= 35 x 10

= 350 / ml

* STP = (3.2.2) Nilai indeks 210

=

= 210 x 10

= 2100 / ml

* **Pengulangan 3**
* SDS = ( 3.3.3 )≈ Nilai indeks ≥ 1100

=

= 1100 x 10

= >11000 / ml

* SBB = ( 3.2.2 ) ≈ Nilai indeks 210

=

= 210 x 10

= 2100 / ml

* STG = ( 2.3.2 ) ≈ Nilai indeks 38

=

= 38 x 10

**Lampiran 6.** (Lanjutan)

= 380 / ml

* SSO = ( 3.2.1 )≈ Nilai indeks 150

=

= 150 x 10

= 1500/ ml

* STP = ( 2.1.2 ) ≈ Nilai indeks 27

=

= 27 x 10

= 270 / ml

* **Pengulangan 4**
* SDS = ( 3.3.3 )≈ Nilai indeks ≥ 1100

=

= 1100 x 10

= >11000 / ml

* SBB = ( 3.3.3 )≈ Nilai indeks ≥ 1100

=

= 1100 x 10

= >11000 / ml

* STG = ( 3.3.2 )≈ Nilai indeks 1100

=

= 1100 x 10

= 11000 / ml

* SSO = ( 3.3.2 )≈ Nilai indeks 1100

**Lampiran 6.** (Lanjutan)

=

= 1100 x 10

= 11000 / ml

* STP = ( 3.3.3 )≈ Nilai indeks ≥ 1100

=

= 1100 x 10

= >1100 0/ ml

* **Pengulangan 5**
* SDS = ( 3.3.3 )≈ Nilai indeks ≥ 1100

=

= 1100 x 10

= >11000 / ml

* SBB = ( 3.3.3 )≈ Nilai indeks ≥ 1100

=

= 1100 x 10

= >11000 / ml

* STG = ( 3.3.3 )≈ Nilai indeks ≥ 1100

=

= 1100 x 10

= >11000 / ml

* SSO = ( 3.2.2 )≈ Nilai indeks 210

=

= 210 x 10

**Lampiran 6.** (Lanjutan)

= 2100 / ml

* STP = ( 3.3.2 )≈ Nilai indeks 1100

=

= 1100 x 10

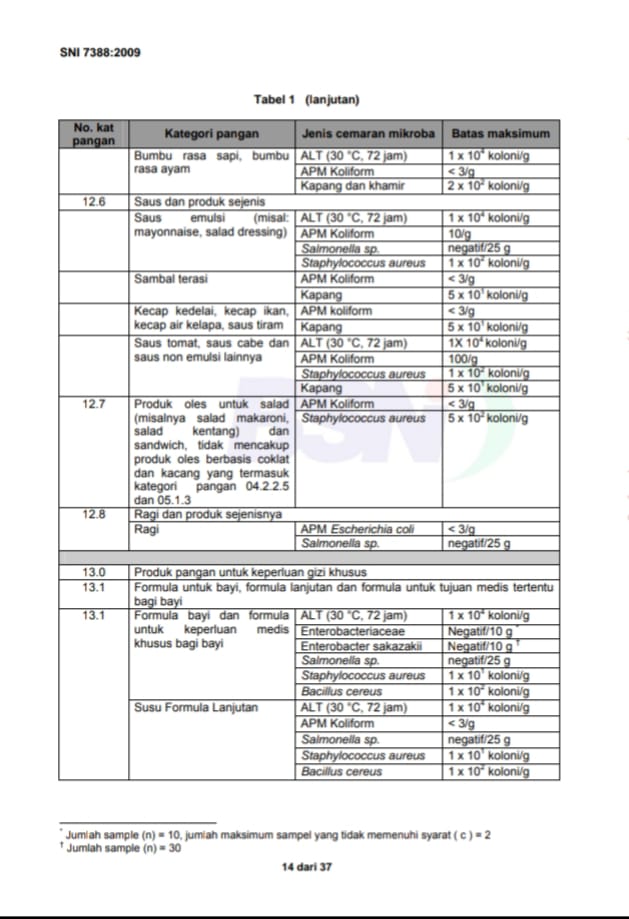
= 11000 / ml

Lampiran 7. Tabel perhitungan ALT

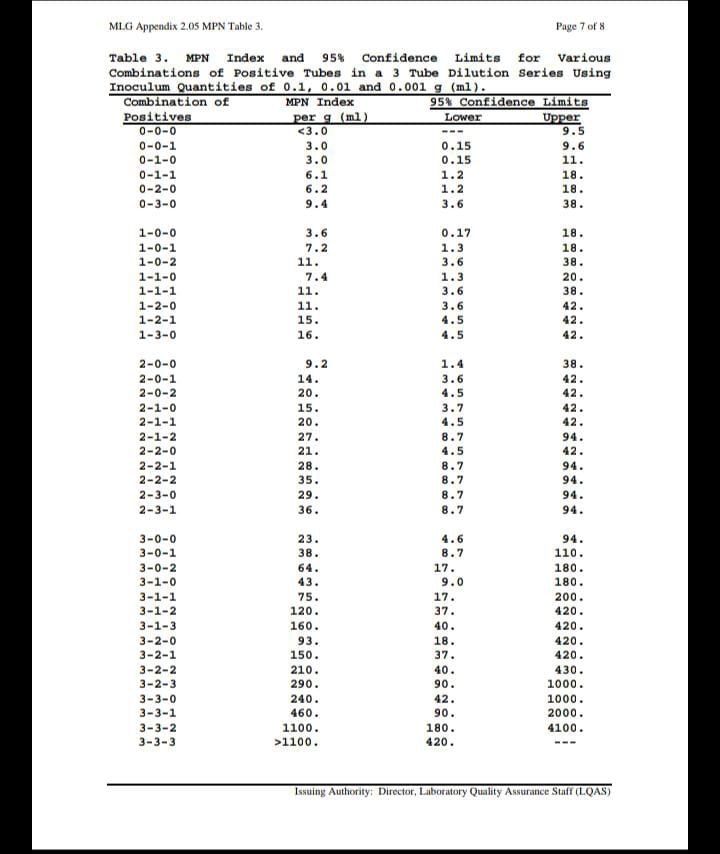
|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sampel** | **Pengulangan** | **Angka Lempeng Total** | **Standar SNI koloni/g** | **Keterangan** |
| SDS | SDS UL 1 | 1,6 x 10⁴ CFU/ml | 1 x 10⁴ | TMS |
| SDS UL 2 | 3,94 x 10⁴ CFU/ml | 1 x 10⁴ | TMS |
| SDS UL 3 | 3,6 x 10⁴ CFU/ml | 1 x 10⁴ | TMS |
| SDS UL 4 | 0,4 x 10⁴ CFU/ml | 1 x 10⁴ | MS |
| SDS UL 5 | 2,9 x 10⁴ CFU/ml | 1 x 10⁴ | TMS |
| SBB | SBB UL 1 | 0,9 x 10⁴ CFU/ml | 1 x 10⁴ | MS |
| SBB UL 2 | 1,8 x 10⁴ CFU/ml | 1 x 10⁴ | TMS |
| SBB UL 3 | TFTC | 1 x 10⁴ | TMS |
| SBB UL 4 | 1,8 x 10⁴ CFU/ml | 1 x 10⁴ | TMS |
| SBB UL 5 | 5,3 x 10⁴ CFU/ml | 1 x 10⁴ | TMS |
| STG | STG UL 1 | 4,6 x 10⁴ CFU/ml | 1 x 10⁴ | TMS |
| STG UL 2 | 7,3 x 10⁴ CFU/ml | 1 x 10⁴ | TMS |
| STG UL 3 | 0,03 x 10⁴ CFU/ml | 1 x 10⁴ | MS |
| STG UL 4 | 5,0 x 10⁴ CFU/ml | 1 x 10⁴ | TMS |
| STG UL 5 | 0,2 x 10⁴ CFU/ml | 1 x 10⁴ | MS |
| SSO | SSO UL 1 | 0,3 x 10⁴ CFU/ml | 1 x 10⁴ | MS |
| SSO UL 2 | 3,9 x 10⁴ CFU/ml | 1 x 10⁴ | TMS |
| SSO UL 3 | 4,1 x 10⁴ CFU/ml | 1 x 10⁴ | TMS |
| SSO UL 4 | 5,1 x 10⁴ CFU/ml | 1 x 10⁴ | TMS |
| SSO UL 5 | 2,8 x 10⁴ CFU/ml | 1 x 10⁴ | TMS |
| STP | STP UL 1 | 1,3 x 10⁴ CFU/ml | 1 x 10⁴ | TMS |
| STP UL 2 | 3,7 x 10⁴ CFU/ml | 1 x 10⁴ | TMS |
| STP UL 3 | 1,2 x 10⁴ CFU/ml | 1 x 10⁴ | TMS |
| STP UL 4 | 27,5 x 10⁴ CFU/ml | 1 x 10⁴ | TMS |
| STP UL 5 | 1,1 x 10⁴ CFU/ml | 1 x 10⁴ | TMS |

Lampiran 8. Tabel perhitungan MPN

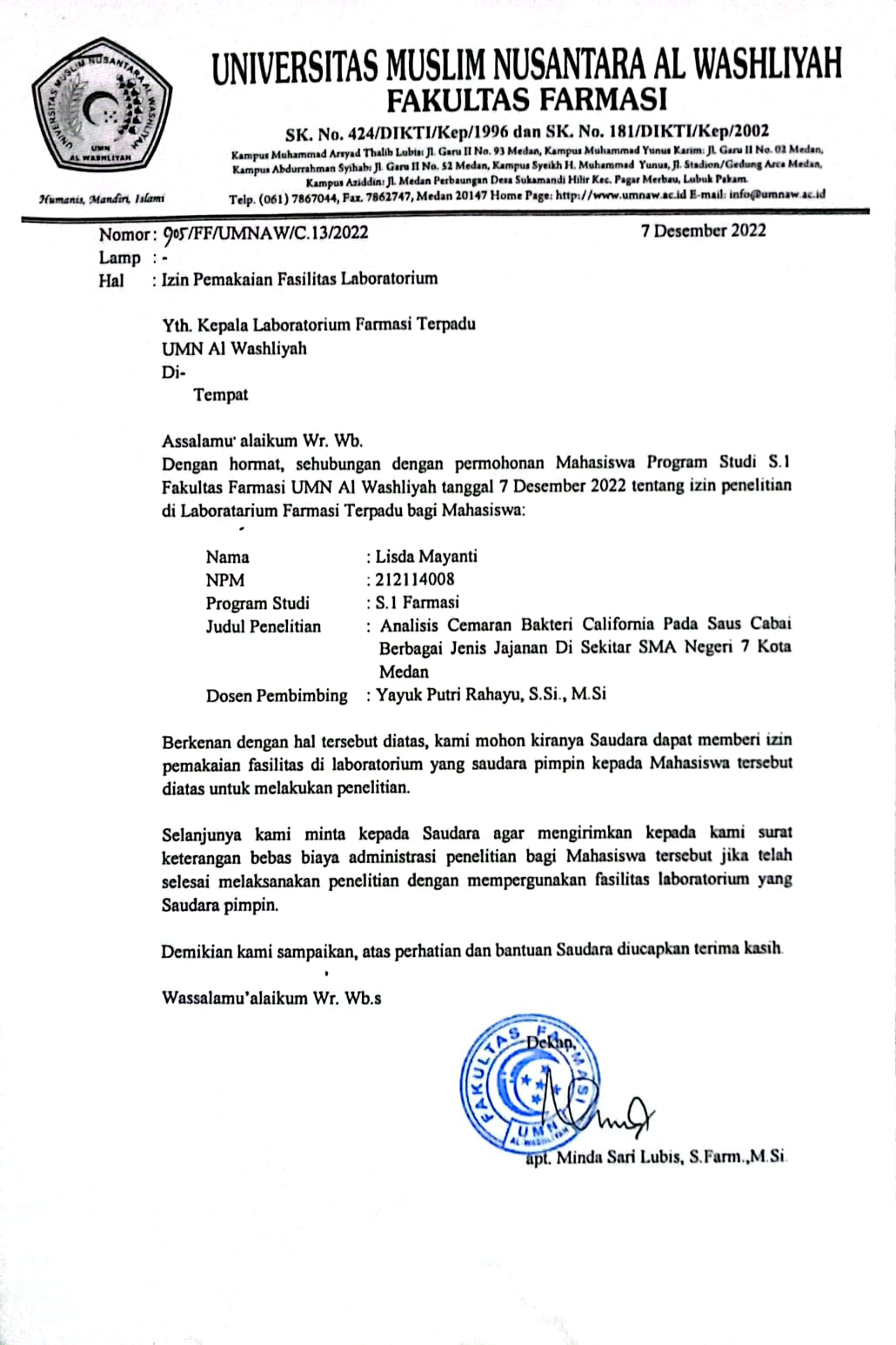
|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Sampel** | **Pengulangan** | **Jumlah tabung (＋)** | | | **Indeks MPN / g (ml)** | **Coliform** | **Standar SNI**  **MPN/g** | **Ket** |
| 10̄¹ | 10ֿ² | 10ֿ³ |
| SDS | Ul1 | 3 | 2 | 1 | 150 | 1500 | 100 | TMS |
| Ul2 | 3 | 2 | 1 | 150 | 1500 | 100 | TMS |
| Ul3 | 3 | 3 | 3 | >1100 | >11000 | 100 | TMS |
| Ul4 | 3 | 3 | 3 | >1100 | >11000 | 100 | TMS |
| Ul5 | 3 | 3 | 3 | >1100 | >11000 | 100 | TMS |
| SBB | Ul1 | 3 | 3 | 3 | >1100 | >11000 | 100 | TMS |
| Ul2 | 2 | 2 | 2 | 35 | 350 | 100 | TMS |
| Ul3 | 3 | 2 | 2 | 210 | 2100 | 100 | TMS |
| Ul4 | 3 | 3 | 3 | >1100 | >11000 | 100 | TMS |
| Ul5 | 3 | 3 | 3 | >1100 | >11000 | 100 | TMS |
| STG | Ul1 | 3 | 3 | 3 | >1100 | >11000 | 100 | TMS |
| Ul2 | 3 | 3 | 3 | >1100 | >11000 | 100 | TMS |
| Ul3 | 2 | 3 | 2 | 38 | 3800 | 100 | TMS |
| Ul4 | 3 | 3 | 2 | 1100 | 11000 | 100 | TMS |
| Ul5 | 3 | 3 | 3 | >1100 | >11000 | 100 | TMS |
| SSO | Ul1 | 3 | 3 | 3 | >1100 | >11000 | 100 | TMS |
| Ul2 | 2 | 2 | 2 | 35 | 350 | 100 | TMS |
| Ul3 | 3 | 2 | 1 | 150 | 1500 | 100 | TMS |
| Ul4 | 3 | 3 | 2 | 1100 | 11000 | 100 | TMS |
| Ul5 | 3 | 2 | 2 | 210 | 2100 | 100 | TMS |
| STP | Ul1 | 3 | 3 | 3 | >1100 | >11000 | 100 | TMS |
| Ul2 | 3 | 2 | 2 | 210 | 2100 | 100 | TMS |
| Ul3 | 2 | 1 | 2 | 27 | 270 | 100 | TMS |
| Ul4 | 3 | 3 | 3 | >1100 | >11000 | 100 | TMS |
| Ul5 | 3 | 3 | 2 | 1100 | 11000 | 100 | TMS |

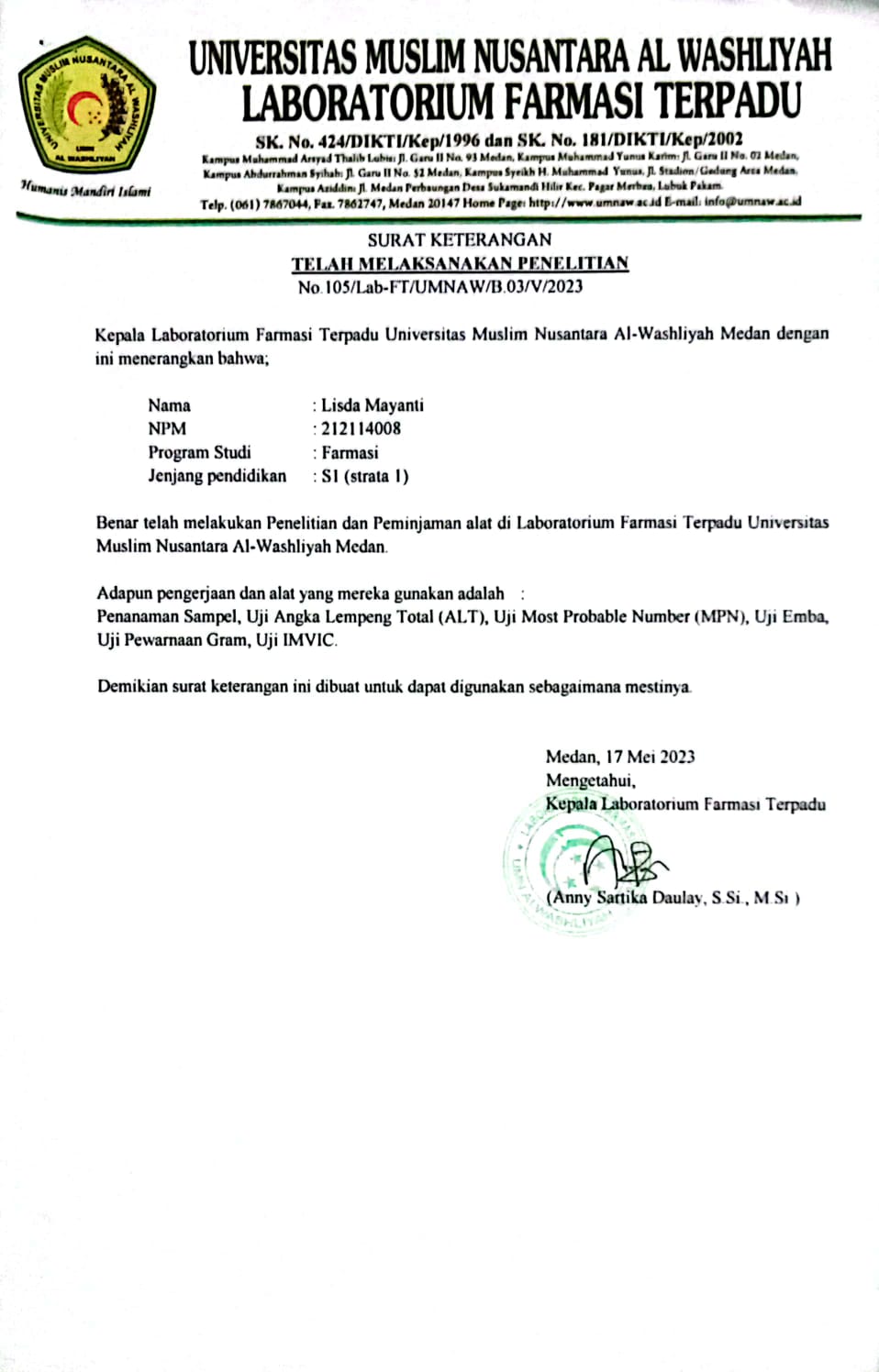
Lampiran 9. Tabel Batas Cemaran Mikroba Dalam Makanan SNI 7388-2009

Lampiran 10. Tabel MPN 333 United States Department of Agriculture

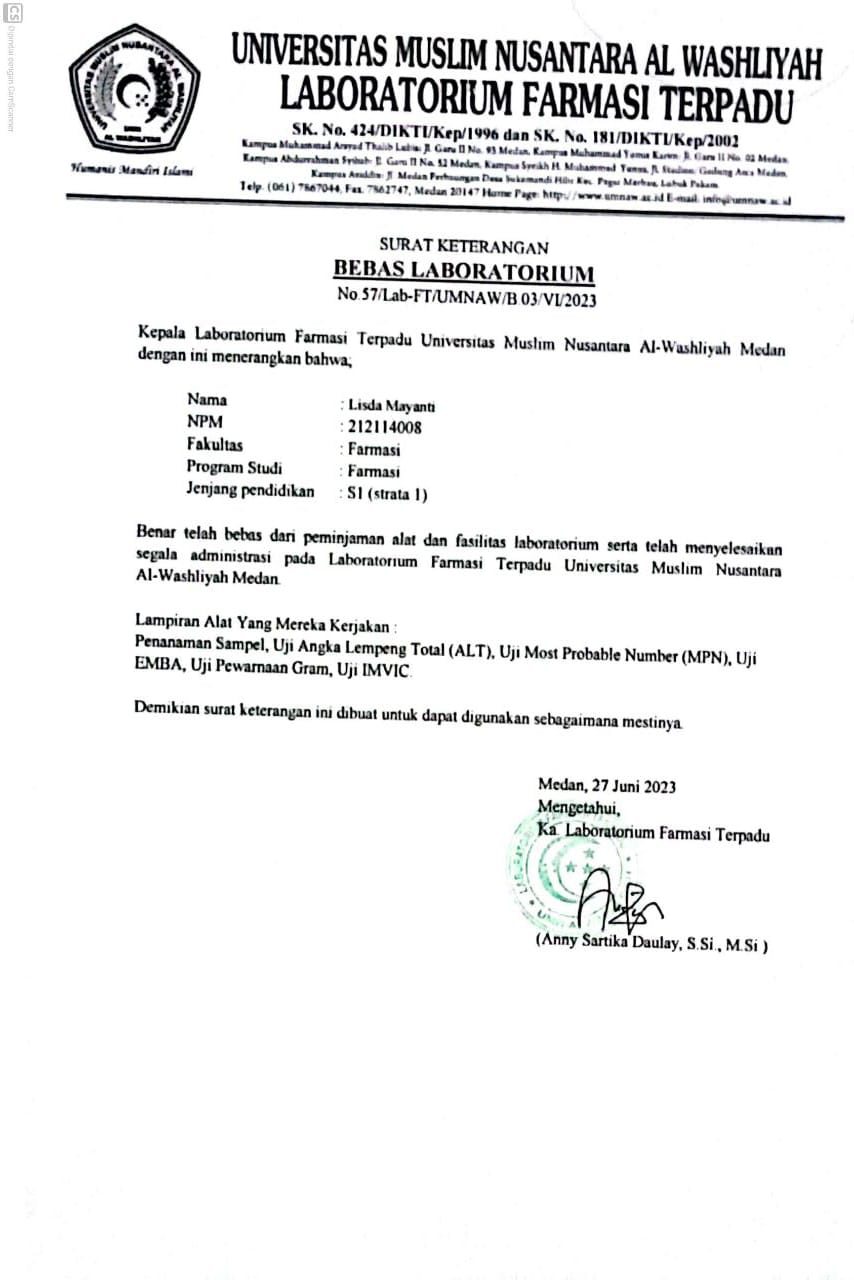


**Lampiran 11. Surat Persetujuan Pelaksaan Penelitian Dari Tempat Penelitian**



**Lampiran 12. Surat Telah Melaksanakan Penelitian**

**Lampiran 13 . Surat Keterangan Bebas Laboratorium**

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