LAMPIRAN PERHITUNGAN

lampiran 1 Data Perhiutngan

A. Perhitungan Pembuatan Larutan HCl2N dalam 100 ml aquadest

- **NHCl Pekat**

  $= \frac{\mathbf{10\ x\ massa\ jenis\ x\ \%}}{\mathbf{BE}}$

  $= \frac{\mathbf{10\ X\ 1,18}\ \frac{g}{ml} \mathbf{x\ 37}}{\mathbf{36,5}\ \frac{g}{\mathbf{molek}}}$

  = 11,96 N

  = 12 N

- HCl2N

  N1 x V1 = N2 X V2

  12 x ml = 2 x 100 ml

  ml $= \frac{\mathbf{200}}{\mathbf{12}}$

  ml = 16,6

B. Perhitungan Pembuatan Larutan NaOH 1N dalam 100 ml aquadest

- 1 N NaOH $= \frac{\boldsymbol{m}}{\boldsymbol{Mr}}$ x $\frac{\mathbf{1000}}{\boldsymbol{v}}$ x a

  $= \frac{\boldsymbol{m}}{\mathbf{40}\ \boldsymbol{g/mol}}$ x $\frac{\mathbf{1000}}{\mathbf{100}}$ x 1

- M NaOH $= \frac{\mathbf{40}}{\mathbf{10}}$

  = 4 gram

C. Pembuatan Larutan BPW (Buffered Peptone Water) dalam 3000 ml aquadest

Diketahui pada etiket larutan BPW ialah 20,07 gram BPW dalam 1000 ml maka :

m = $\frac{\mathbf{20,07}\ \boldsymbol{g}}{\mathbf{1000}\ \boldsymbol{ml}} = \frac{\boldsymbol{m}}{\mathbf{3000}\ \boldsymbol{ml}}$

m = $\frac{\mathbf{60,210}\ \boldsymbol{gml}}{\mathbf{1000}\ \boldsymbol{ml}}$

m = 60,21 gram

D. Pembuatan Media PCA (Plate Count Agar) dalam 1500 ml aquadest

Diketahui pada etiket PCA ialah 17,5 gram PCA dalam 1000 ml maka :

$$\frac{17{,}5\ 9}{1000\ ml} = \frac{m}{1500\ ml}$$

$$m = \frac{26{,}250\ gml}{1000\ ml}$$

m = 26,25 gram

E. Tabel Pengamatan Koloni

lampiran 2 Tabel Pengamatan

Tabel 3.9 Hasil Data Pengamatan Tepung

PENGENCERAN	SIMPLO	REPLIKASI	DUPLO	REPLIKASI
BLANKO	A1	63	B1	63
	A2	5	B2	5
	A3	13	B3	13

PENGENCERAN	SIMPLO	REPLIKASI	DUPLO	REPLIKASI
10^{-5}	A1	TBUD	B1	TBUD
	A2	TBUD	B2	TBUD
	A3	TBUD	B3	TBUD

PENGENCERAN	DUPLO	REPLIKASI	DUPLO	REPLIKASI
10^{-6}	A1	65	B1	48
	A2	92	B2	68
	A3	100	B3	120

PENGENCERAN	DUPLO	REPLIKASI	DUPLO	REPLIKASI
10^{-7}	A1	38	B1	31
	A2	22	B2	68
	A3	60	B3	104

PENGENCERAN	DUPLO	REPLIKASI	DUPLO	REPLIKASI
10^{-8}	A1	18	B1	0
	A2	17	B2	5
	A3	11	B3	0

PENGENCERAN	DUPLO	REPLIKASI	DUPLO	REPLIKASI
10^{-9}	A1	14	B1	5
	A2	3	B2	4
	A3	8	B3	4

PENGENCERAN	DUPLO	REPLIKASI	DUPLO	REPLIKASI

Tabel 3.9 Hasil Data Pengamatan Pati

PENGENCERAN	DUPLO	REPLIKASI	DUPLO	REPLIKASI
BLANKO	A1	0	B1	0
	A2	0	B2	0
	A3	0	B3	0

PENGENCERAN	DUPLO	REPLIKASI	DUPLO	REPLIKASI
10^{-5}	A1	TBUD	B1	TBUD
	A2	TBUD	B2	TBUD
	A3	TBUD	B3	TBUD

PENGENCERAN	DUPLO	REPLIKASI	DUPLO	REPLIKASI
10^{-6}	A1	184	B1	160
	A2	67	B2	93
	A3	83	B3	58

PENGENCERAN	DUPLO	REPLIKASI	DUPLO	REPLIKASI
10^{-7}	A1	35	B1	28
	A2	14	B2	21
	A3	TBUD	B3	TBUD

PENGENCERAN	DUPLO	REPLIKASI	DUPLO	REPLIKASI
10^{-8}	A1	26	B1	20
	A2	12	B2	13
	A3	18	B3	15

PENGENCERAN	DUPLO	REPLIKASI	DUPLO	REPLIKASI
10^{-9}	A1	25	B1	`21
	A2	41	B2	13
	A3	30	B3	39

PENGENCERAN	DUPLO	REPLIKASI	DUPLO	REPLIKASI
10^{-10}	A1	24	B1	31

10^{-10}	A1	20	B1	22
	A2	28	B2	55
	A3	29	B3	31

	A2	19	B2	25
	A3	30	B3	23

PENGENCERAN	DUPLO	REPLIKASI	DUPLO	REPLIKASI
10^{-11}	A1	17	B1	37
	A2	57	B2	58
	A3	125	B3	89

PENGENCERAN	DUPLO	REPLIKASI	DUPLO	REPLIKASI
10^{-11}	A1	23	B1	6
	A2	9	B2	7
	A3	19	B3	17

F. Perhitungan Nilai ALT Pada Tepung dan Pati Pisang Kepok

- **Tepung**
  - Replikasi 1

$$N = \frac{(\sum C)}{(V \times [n1 + (0{,}1 \times n2] \times (d))}$$

$$= \frac{65+48+38+31}{(1 \times [2 + (0{,}1 \times 2] \times (\mathbf{10-6})}$$

$$= \frac{182}{2{,}2 \times \mathbf{10-6}}$$

$$= 82{,}7 \times 10^{6}$$

$$= 8{,}3 \times 10^{7}\ \text{CFU/g}$$

  - Replikasi 2

$$N = \frac{(\sum C)}{(V \times [n1 + (0{,}1 \times n2] \times (d))}$$

$$= \frac{92+68+22+68}{(1 \times [2 + (0{,}1 \times 2] \times (\mathbf{10-6})}$$

$$= \frac{250}{2{,}2 \times \mathbf{10-6}}$$

$$= 11{,}3 \times 10^{6}$$

$$= 1{,}1 \times 10^{7}\ \text{CFU/g}$$

  - Replikasi 3

$$N = \frac{(\sum C)}{(V \times [n1 + (0{,}1 \times n2] \times (d))}$$

$$= \frac{100+120+60+104}{(1 \times [2 + (0{,}1 \times 2] \times (\mathbf{10-6})}$$

$$= \frac{384}{2{,}2 \times \mathbf{10-6}}$$

$$= 174{,}5 \times 10^{6}$$

= 1,7 x 10^8 CFU/g

- **Pati**

  - Replikasi 1

$$N = \frac{(\sum C)}{(V \times [n1 + (0{,}1 \times n2] \times (d))}$$

$$= \frac{184+160+35+28}{(1 \times [2 + (0{,}1 \times 1] \times (\mathbf{10-6})}$$

$$= \frac{407}{2{,}2 \times \mathbf{10-6}}$$

$$= 185 \times 10^6$$

$$= 1{,}8 \times 10^8 \text{ CFU/g}$$

  - Replikasi 2

$$N = \frac{(\sum C)}{(V \times [n1 + (0{,}1 \times n2] \times (d))}$$

$$= \frac{67+93+14+21}{(1 \times [2 + (0{,}1 \times 2] \times (\mathbf{10-6})}$$

$$= \frac{195}{2{,}2 \times \mathbf{10-6}}$$

$$= 88{,}6 \times 10^6$$

$$= 8{,}8 \times 10^7 \text{ CFU/g}$$

  - Replikasi 3

$$N = \frac{(\sum C)}{(V \times [n1 + (0{,}1 \times n2] \times (d))}$$

$$= \frac{83+58+19+17}{(1 \times [2 + (0{,}1 \times 2] \times (\mathbf{10-6})}$$

$$= \frac{177}{2{,}2 \times \mathbf{10-6}}$$

$$= 80{,}4 \times 10^6$$

$$= 8{,}4 \times 10^7 \text{ CFU/g}$$