LAMPIRAN

Lampiran 1 Perhitungan

A. Perhitungan Pembuatan Larutan HCl 2N dalam 100 ml aquadest

- **N HCl Pekat**

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

  $= \frac{10\ x\ 1{,}8\ g/ml\ x\ 37}{36{,}5\ g/molek}$

  = 11,96, N

  = 12 N

- **HCl 2N**

  $N_1 \times V_1 = N_2 \times V_2$

  12 x ml = 2 x 100 ml

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

  ml = 16,**6**

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

1 N NaOH $= \frac{m}{Mr}\ x\ \frac{1000}{V}\ x\ a$

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

m NaOH $= \frac{40}{10}$

= 4 gram

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

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

= m $= \frac{60.210\ gml}{1000\ ml}$

= m = 60,21 gram

D. Perhitungan Nilai AKK Pada Pati Pisang Kepok Steril

- **Replikasi 1**

$$N = \frac{\sum c}{V \times 1{,}1 \times d}$$

$$N = \frac{32+4}{1 \times 1{,}1 \times 10^{-3}}$$

$$N = \frac{36}{1{,}1 \times 10^{-3}}$$

$$N = 3{,}3 \times 10^{-4} \text{ CFU/g}$$

- **Replikasi 2**

$$N = \frac{\sum c}{V \times 1{,}1 \times d}$$

$$N = \frac{33+3}{1 \times 1{,}1 \times 10^{-3}}$$

$$N = \frac{36}{1{,}1 \times 10^{-3}}$$

$$N = 3{,}3 \times 10^{-4} \text{ CFU/g}$$

- **Replikasi 3**

$$N = \frac{\sum c}{V \times 1{,}1 \times d}$$

$$N = \frac{21+4}{1 \times 1{,}1 \times 10^{-3}}$$

$$N = \frac{25}{1{,}1 \times 10^{-3}}$$

$$N = 2{,}3 \times 10^{-4} \text{ CFU/g}$$

E. Perhitungan Nilai AKK Pada Pati Pisang Kepok Non Steril

- **Replikasi 1**

$$N = \frac{\sum c}{V \times 1{,}1 \times d}$$

$$N = \frac{15+0}{1 \times 1{,}1 \times 10^{-3}}$$

$$N = \frac{15}{1{,}1 \times 10^{-3}}$$

$$N = 1{,}4 \times 10^{-4} \text{ CFU/g}$$

- **Replikasi 2**

$$N = \frac{\sum c}{V \times 1{,}1 \times d}$$

$$N = \frac{20+2}{1 \times 1{,}1 \times 10^{-3}}$$

$$N = \frac{22}{1{,}1 \times 10^{-3}}$$

$$N = 2{,}0 \text{ X } 10^{-4} \text{ CFU/g}$$

- **Replikasi 3**

$$N = \frac{\sum c}{V \times 1{,}1 \times d}$$

$$N = \frac{20+1}{1 \times 1{,}1 \times 10^{-3}}$$

$$N = \frac{21}{1{,}1 \times 10^{-3}}$$

$$N = 1{,}9 \text{ X } 10^{-4} \text{ CFU/g}$$

Lampiran 2 Dokumentasi Penelitian

A. Sterilisasi Pati Pisang Kepok

		
Penimbangan pati pisang kepok	**Proses pemasukan pati dalam uv box**	**Dipaparkan sinar UV**

B. Pembuatan Larutan NaOH 1 N

	
Penimbangan NaOH	**Pelarutan NaOH dengan Aquadest**

C. Pembuatan Larutan HCl 2N


Pengenceran HCl Pekat

D. Pembuatan Larutan BPW (*Buffered Peptone Water*)

		
Penimbangan BPW	**Pelarutan larutan BPW**	**Pengaturan pH hingga 7,2 dengan larutan HCl**

E. Pembuatan Suspensi Sampel

		
Penimbangan sampel	**Penambahan 225 ml larutan BPW kemudian dilakukan pengadukan**	**Sampel setelah dibiarkan selama 10 menit**

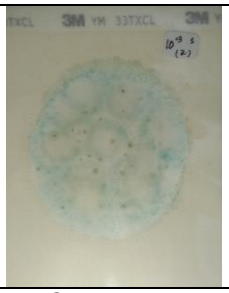
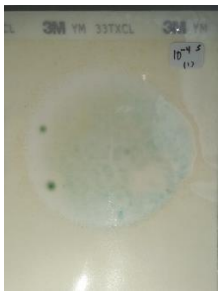
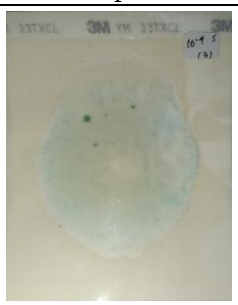
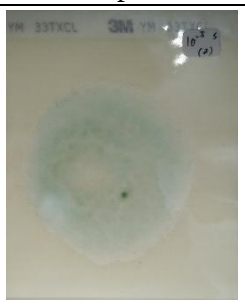
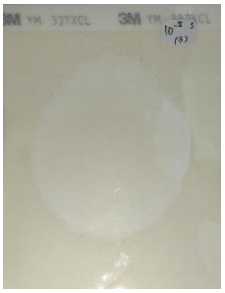
F. Pengenceran Sampel

		
Tabung reaksi yang telah diisi 9 ml larutan BPW	**Pengambilan 1 ml dari pengenceran 10^{-1}**	**Dimasukkan 1 ml pengenceran 10^{-1} ke dalam tabung reaksi (10^{-2}). Dilakukan hingga pengenceran 10^{-5}**

G. Pengujian AKK dengan metode petrifilm

			
Pemipetan 1 ml pengenceran 10^{-3} - 10^{-5}	**Hasil inokulasi sampel pada petrifilm AKK**	**Inkubasi petrifilm AKK**	**Pengamatan dan perhitungan koloni AKK**

H. Pengamatan koloni pada pati pisang kepok steril

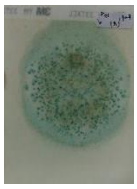
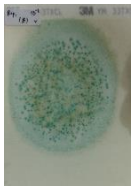
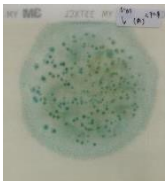
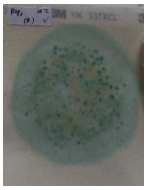
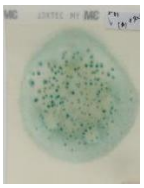
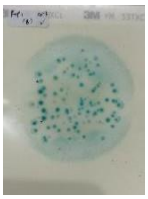
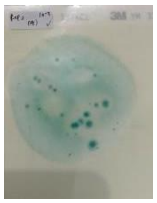
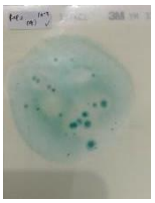
		
10^{-3} Replikasi 1	10^{-3} Replikasi 2	10^{-3} Replikasi 3
		
10^{-4} Replikasi 1	10^{-4} Replikasi 2	10^{-4} Replikasi 3
		
10^{-5} Replikasi 1	10^{-5} Replikasi 2	10^{-5} Replikasi 3

I. Pengamatan koloni pada pati pisang kepok non steril

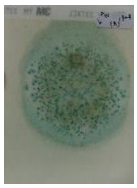
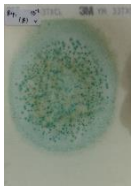
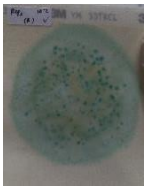
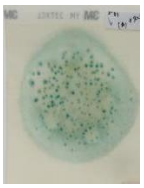
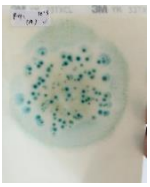
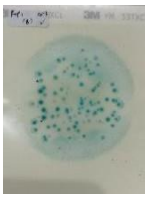
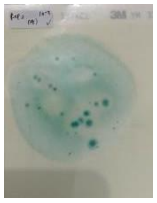
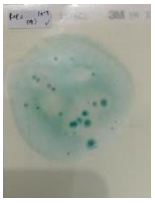
		
10^{-3} Replikasi 1	10^{-3} Replikasi 2	10^{-3} Replikasi 3
		
10^{-4} Replikasi 1	10^{-4} Replikasi 2	10^{-4} Replikasi 3
		
10^{-5} Replikasi 1	10^{-5} Replikasi 2	10^{-5} Replikasi 3

J. Blanko petrifilm AKK

K. Pengamatan koloni uji pendahuluan (Steril)

					
$10^{-2}_{(R1)\,A}$	$10^{-2}_{(R1)\,B}$	$10^{-2}_{(R2)\,A}$	$10^{-2}_{(R2)\,B}$	$10^{-2}_{(R3)\,A}$	$10^{-2}_{(R3)\,B}$
					
$10^{-3}_{(R1)\,A}$	$10^{-3}_{(R1)\,B}$	$10^{-3}_{(R2)\,A}$	$10^{-3}_{(R2)\,B}$	$10^{-3}_{(R3)\,A}$	$10^{-3}_{(R3)\,B}$

L. Pengamatan koloni uji pendahuluan (Non Steril)

					
$10^{-2}_{(R1)\,A}$	$10^{-2}_{(R1)\,B}$	$10^{-2}_{(R2)\,A}$	$10^{-2}_{(R2)\,B}$	$10^{-2}_{(R3)\,A}$	$10^{-2}_{(R3)\,B}$
					
$10^{-3}_{(R1)\,A}$	$10^{-3}_{(R1)\,B}$	$10^{-3}_{(R2)\,A}$	$10^{-3}_{(R2)\,B}$	$10^{-3}_{(R3)\,A}$	$10^{-3}_{(R3)\,B}$

M. Blanko uji pendahuluan