

## DAFTAR LAMPIRAN

### Lampiran 1 Perhitungan Angka Lempeng Total

**Perhitungan :**

**Sampel A :**

$$\begin{aligned}10^{-3} &= (185 + 170) / 2 \times 10^{-3} \\ &= 178 \times 10^{-3} \\ &= 178.000\end{aligned}$$

$$\begin{aligned}10^{-4} &= (55 + 75) / 2 \times 10^{-4} \\ &= 65 \times 10^{-4} \\ &= 650.000\end{aligned}$$

$$\begin{aligned}\text{Hasil} &= 178.000 + 650.000 / 2 \\ &= 414.000 \text{ cfu/g} \\ &= 4,1 \times 10^5 \text{ cfu/g}\end{aligned}$$

**Sampel B :**

$$\begin{aligned}10^{-3} &= (175 + 111) / 2 \times 10^{-3} \\ &= 143 \times 10^{-3} \\ &= 143.000\end{aligned}$$

$$\begin{aligned}10^{-4} &= (100 + 64) / 2 \times 10^{-4} \\ &= 82 \times 10^{-4} \\ &= 820.000\end{aligned}$$

$$\begin{aligned}\text{Hasil} &= 143.000 + 820.000 / 2 \\ &= 481.500 \text{ cfu/g} \\ &= 5,0 \times 10^5 \text{ cfu/g}\end{aligned}$$

**Sampel C :**

$$\begin{aligned}10^{-3} &= (240 + 285) / 2 \times 10^{-3} \\ &= 263 \times 10^{-3} \\ &= 263.000\end{aligned}$$

$$\begin{aligned}10^{-4} &= (190 + 220) / 2 \times 10^{-4} \\ &= 205 \times 10^{-4} \\ &= 2.050.000\end{aligned}$$

$$\begin{aligned}\text{Hasil} &= 263.000 + 2.050.000 / 2 \\ &= 1.156.500 \text{ cfu/g} \\ &= 1,2 \times 10^6 \text{ cfu/g}\end{aligned}$$

**Lampiran 2 Perhitungan *Staphylococcus aureus***

**Sampel A :**

$$\begin{aligned}10^{-1} &= 30 \times 10^{-1} \\ &= 300\end{aligned}$$

$$\begin{aligned}10^{-2} &= 15 \times 10^{-2} \\ &= 1.500\end{aligned}$$

$$\begin{aligned}\text{Hasil} &= 300 + 1.500 / 2 \\ &= 900 \text{ cfu/g} \\ &= 9,0 \times 10^2 \text{ cfu/g}\end{aligned}$$

**Sampel B :**

$$\begin{aligned}10^{-1} &= 560 \times 10^{-1} \\ &= 5.600\end{aligned}$$

$$\begin{aligned}10^{-2} &= 355 \times 10^{-2} \\ &= 35.500\end{aligned}$$

$$\text{Hasil} = 5.600 + 35.500 / 2$$

$$= 20.550 \text{ cfu/g}$$
$$= 2,1 \times 10^4 \text{ cfu/g}$$

**Sampel C :**

$$10^{-1} = 650 \times 10^{-1}$$
$$= 6.500$$
$$10^{-2} = 487 \times 10^{-2}$$
$$= 48.700$$
$$\text{Hasil} = 6.500 + 48.700 / 2$$
$$= 27.600 \text{ cfu/g}$$
$$= 3,1 \times 10^4 \text{ cfu/g}$$

**Lampiran 3 Hasil perhitungan *Salmonella sp***

**Sampel B :**

$$10^{-1} = 9 \times 10^{-1}$$
$$= 90$$
$$10^{-2} = 20 \times 10^{-2}$$
$$= 200$$
$$\text{Hasil} = 90 + 200 / 2$$
$$= 145 \text{ cfu}/_{25\text{g}}$$
$$= 1,5 \times 10^2 \text{ cfu}/_{25\text{g}}$$

**Sampel C :**

$$10^{-1} = 37 \times 10^{-1}$$
$$= 370$$
$$10^{-2} = 8 \times 10^{-2}$$
$$= 800$$
$$\text{Hasil} = 370 + 800 / 2$$

$$= 585 \text{ cfu}/_{25\text{g}}$$

$$= 4,1 \times 10^2 \text{ cfu}/_{25\text{g}}$$

#### Lampiran 4 Dokumentasi

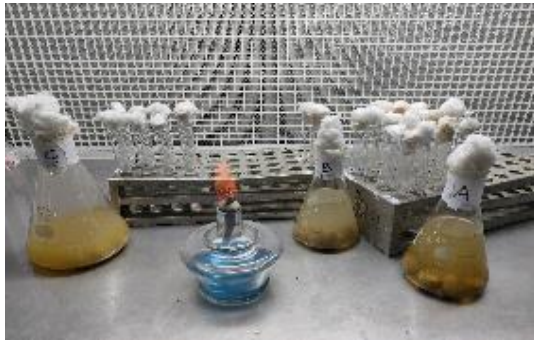


**Gambar 20.** Melakukan penimbangan media yang digunakan

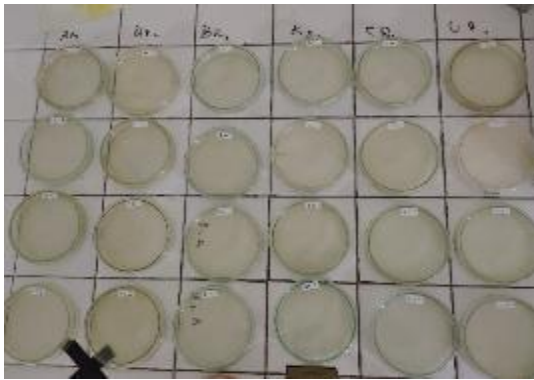




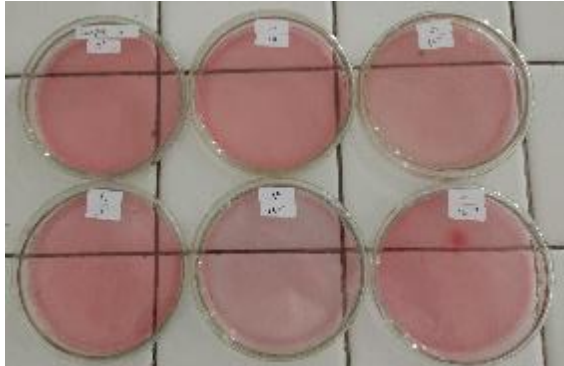
**Gambar 21.** Melakukan pembuatan media dan sterilisasi



**Gambar 22.** Proses pengenceran sampel A, B dan C



**Gambar 23.** Penanaman sampel ke media *Plate Count Agar* (PCA)



**Gambar 24.** Penanaman sampel ke media *Mannitol Salt Agar*



**Gambar 25.** Preparasi sampel dengan pelarut *Buffer Pepton*



**Gambar 26.** Menghitung Jumlah koloni yang tumbuh pada media agar



**Gambar 27.** Hasil inkubasi *Buffer Pepton* selama 24 jam pada suhu 37°C

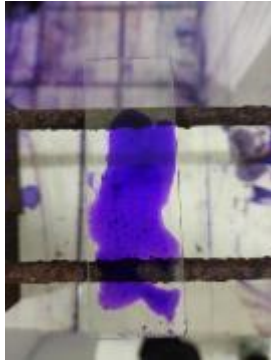


(1) Inokulasi *buffer pepton* ke larutan selenit

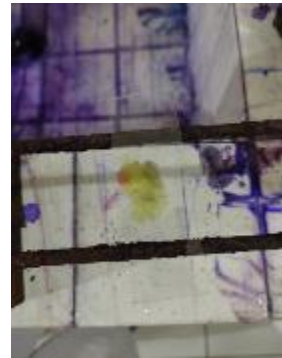


(2) Hasil inkubasi larutan *selenit*

**Gambar 28.** Proses inokulasi *buffer pepton* ke larutan selenit (1), Hasil inkubasi larutan *selenit* selama 24 Jam pada Suhu 37°C (2)



**Gram A (Kristal Violet)**



**Gram B (Lugol)**



**Gram C (Alkohol 96%)**



**Gram D (Safranin)**

**Gambar 29.** Proses pewarnaan gram *Staphylococcus aureus* dan *Salmonella sp.*