

## PEMBUATAN LARUTAN

### Larutan standar 100 ppm 50 mL

#### Konsentrasi 1 ppm

$$V_1M_1 = V_2M_2$$

$$V_1(100 \text{ ppm}) = 10 \text{ mL} (1 \text{ ppm})$$

$$V_1 = \frac{10 \text{ mL}}{100} = 0.1 \text{ mL}$$

#### Konsentrasi 2 ppm

$$V_1M_1 = V_2M_2$$

$$V_1(100 \text{ ppm}) = 10 \text{ mL} (2 \text{ ppm})$$

$$V_1 = \frac{20 \text{ mL}}{100} = 0.2 \text{ mL}$$

#### Konsentrasi 3 ppm

$$V_1M_1 = V_2M_2$$

$$V_1(100 \text{ ppm}) = 10 \text{ mL} (3 \text{ ppm})$$

$$V_1 = \frac{30 \text{ mL}}{100} = 0.3 \text{ mL}$$

#### Konsentrasi 4 ppm

$$V_1M_1 = V_2M_2$$

$$V_1(100 \text{ ppm}) = 10 \text{ mL} (4 \text{ ppm})$$

$$V_1 = \frac{40 \text{ mL}}{100} = 0.4 \text{ mL}$$

#### Konsentrasi 5 ppm

$$V_1M_1 = V_2M_2$$

$$V_1(100 \text{ ppm}) = 10 \text{ mL} (5 \text{ ppm})$$

$$V_1 = \frac{50 \text{ mL}}{100} = 0.5 \text{ mL}$$

### **% Kadar Formaldehid**

Sampel A<sub>1</sub>

$$y = ax + b$$

$$0,5580 = 0,025 + 0,5003$$

$$x = \frac{0,5580 - 0,5003}{0,025}$$

$$= 2,308$$

$$\% kadar = \frac{2,308}{50.000} \times 100$$

$$= 0,0046$$

Sampel A<sub>2</sub>

$$y = ax + b$$

$$0,5580 = 0,025 + 0,5003$$

$$x = \frac{0,5580 - 0,5003}{0,025}$$

$$= 2,308$$

$$\% kadar = \frac{2,308}{50.000} \times 100$$

$$= 0,0046$$

Sampel A<sub>3</sub>

$$y = ax + b$$

$$0,5580 = 0,025 + 0,5003$$

$$x = \frac{0,5580 - 0,5003}{0,025}$$

$$= 2,308$$

$$\% kadar = \frac{2,308}{50.000} \times 100$$

$$= 0,0046$$

Sampel B<sub>1</sub>

$$y = ax + b$$

$$0,5749 = 0,025 + 0,5003$$

$$x = \frac{0,5749 - 0,5003}{0,025}$$

$$= 2,984$$

$$\% \text{ kadar} = \frac{2,984}{50.000} \times 100$$

$$= 0,00596 \text{ (0,0060)}$$

Sampel B<sub>2</sub>

$$y = ax + b$$

$$0,5749 = 0,025 + 0,5003$$

$$x = \frac{0,5742 - 0,5003}{0,025}$$

$$= 2,956$$

$$\% \text{ kadar} = \frac{2,956}{50.000} \times 100$$

$$= 0,0059$$

Sampel B<sub>3</sub>

$$y = ax + b$$

$$0,5738 = 0,025 + 0,5003$$

$$x = \frac{0,5738 - 0,5003}{0,025}$$

$$= 2,94$$

$$\% \text{ kadar} = \frac{2,94}{50.000} \times 100$$

$$= 0,00588 \text{ (0,0059)}$$

Sampel C<sub>1</sub>

$$y = ax + b$$

$$0,6065 = 0,025 + 0,5003$$

$$x = \frac{0,6065 - 0,5003}{0,025}$$

$$= 4,248$$

$$\% \text{ kadar} = \frac{4,248}{50.000} \times 100$$

$$= 0,00849 \text{ (0,0085)}$$

Sampel C<sub>2</sub>

$$y = ax + b$$

$$0,6061 = 0,025 + 0,5003$$

$$x = \frac{0,6061 - 0,5003}{0,025}$$

$$= 4,232$$

$$\% \text{ kadar} = \frac{4,232}{50.000} \times 100$$

$$= 0,00846 \text{ (0,0085)}$$

Sampel C<sub>3</sub>

$$y = ax + b$$

$$0,6069 = 0,025 + 0,5003$$

$$x = \frac{0,6069 - 0,5003}{0,025}$$

$$= 4,264$$

$$\% \text{ kadar} = \frac{4,264}{50.000} \times 100$$

$$= 0,0085$$

Sampel D<sub>1</sub>

$$y = ax + b$$

$$0,5490 = 0,025 + 0,5003$$

$$x = \frac{0,5490 - 0,5003}{0,025}$$

$$= 1,948$$

$$\% \text{ kadar} = \frac{1,948}{50.000} \times 100$$

$$= 0,00389 \text{ (0,0039)}$$

Sampel D<sub>2</sub>

$$y = ax + b$$

$$0,5492 = 0,025 + 0,5003$$

$$x = \frac{0,5492 - 0,5003}{0,025}$$

$$= 1,956$$

$$\% \text{ kadar} = \frac{1,956}{50.000} \times 100$$

$$= 0,0039$$

Sampel D<sub>3</sub>

$$y = ax + b$$

$$0,5496 = 0,025 + 0,5003$$

$$x = \frac{0,5496 - 0,5003}{0,025}$$

$$= 1,972$$

$$\% \text{ kadar} = \frac{1,972}{50.000} \times 100$$

$$= 0,0039$$

Sampel E<sub>1</sub>

$$y = ax + b$$

$$0,6028 = 0,025 + 0,5003$$

$$x = \frac{0,6028 - 0,5003}{0,025}$$

$$= 4,1$$

$$\% \text{ kadar} = \frac{4,1}{30.000} \times 100$$

$$= 0,001366 \text{ (0,0137)}$$

Sampel E<sub>2</sub>

$$y = ax + b$$

$$0,6078 = 0,025 + 0,5003$$

$$x = \frac{0,6078 - 0,5003}{0,025}$$

$$= 4,3$$

$$\% \text{ kadar} = \frac{4,3}{30.000} \times 100$$

$$= 0,00143$$

Sampel E<sub>3</sub>

$$y = ax + b$$

$$0,6095 = 0,025 + 0,5003$$

$$x = \frac{0,6005 - 0,5003}{0,025}$$

$$= 4,008$$

$$\% \text{ kadar} = \frac{4,008}{30.000} \times 100$$

$$= 0,001366$$

Sampel F<sub>1</sub>

$$y = ax + b$$

$$0,6096 = 0,025 + 0,5003$$

$$x = \frac{0,6096 - 0,5003}{0,025}$$

$$= 4,372$$

$$\% \text{ kadar} = \frac{4,372}{30.000} \times 100$$

$$= 0,001457 \text{ (0,0146)}$$

Sampel F<sub>2</sub>

$$y = ax + b$$

$$0,6053 = 0,025 + 0,5003$$

$$x = \frac{0,6053 - 0,5003}{0,025}$$

$$= 4,2$$

$$\% \text{ kadar} = \frac{4,2}{30.000} \times 100$$

$$= 0,00140$$

Sampel F<sub>3</sub>

$$y = ax + b$$

$$0,6057 = 0,025 + 0,5003$$

$$x = \frac{0,6057 - 0,5003}{0,025}$$

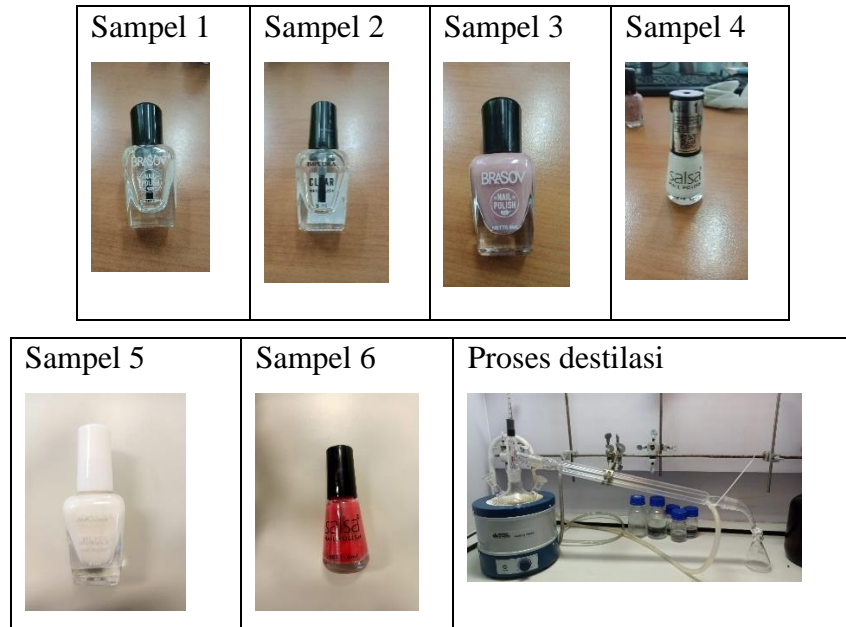
$$= 4,216$$

$$\% \text{ kadar} = \frac{4,216}{30.000} \times 100$$

$$= 0,00140$$

## LAMPIRAN GAMBAR

### Lampiran 1. Preparasi sampel



### Lampiran 2. Uji kualitatif formaldehida





Lampiran 3. Uji kuantitatif formaldehida pada sampel



Lampiran 4. Alat



