

Growing Microbes Assignment

500 mL - LB medium

1% tryptone

5% yeast extract

6 mM NaCl (MW = 58.44 g/mol)

5% Agar

Tryptone:

(for 500 mL) 5

$$\frac{1g}{100 mL} \times 500 mL = 5g$$

Yeast Extract:

$$\frac{5g}{100 mL} \times 500 mL = 25g$$

6 mM NaCl:

MW NaCl = 58.44 g/mol

6 mM = 0.006 M

$$\frac{0.006 M \text{ NaCl}}{1 L} \times 0.500 L \times 58.44 g/mol = 0.17532 g$$

Agar:

$$\frac{5g}{100 mL} \times 500 mL = 25g$$