

Known

Mass of sample = 3.5×10^3 g

Average molecular weight of glucose residue = 162 g/mol

Rate of glucose breakdown = 120×10^{-6} mol/min

Rate of flight = ?

Hydrolysis rate = ?

Calculations

For finding the rate of flight, we use the following:

$$\frac{\text{mass of sample}}{\text{average weight residue}}$$

For finding the rate of hydrolysis, we use the following:

$$\frac{(\text{ave. weight of glycogen broken down})(60 \text{ sec})}{\text{rate of glucose breakdown}}$$

By substitution of the values:

$$\text{rate of flight} = \frac{3.5 \times 10^{-3} \text{ g}}{162 \text{ g/mol}} = \boxed{2.16 \times 10^{-5} \text{ mol}}$$

$$\text{rate of hydrolysis} = \frac{(2.16 \times 10^{-5} \text{ mol})(60 \text{ sec})}{120 \times 10^{-6} \text{ mol}} = \boxed{10.8 \text{ sec}}$$

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