LAB 1: CARBOHYDRATES

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$$\frac{A_b}{c_b} = \frac{A_d}{c_d(\frac{0.1}{0.6})}$$

$$m_1 = c_d(V_1) :$$

Variables: $A_c = 0.456$

$$m_1 = 0.87 \frac{mg}{mL} (10 mL)$$

 $c_c = 0.1 \text{ mg/mL}$

$$A_d = 0.663$$
,

$$m_1 = 8.7 mg$$

V₁ = 10 mL

$$c_d = \frac{(A_d)(c_c)}{A_c(\frac{0.1}{0.6})}$$

 $A_{d}(c_{b}) \ = \ A_{c}(\frac{0.1}{0.6})(c_{d})$

$$c_d = \frac{(0.663)(0.1)}{0.456(\frac{0.1}{0.6})}$$

$$c_d = 0.87 \frac{mg}{mL} = 0.87 \frac{g}{L}$$

 $C_{eq} = \frac{(c_0)(V_1)}{V_1(V)}$ $C_{eq} = \frac{(48.3 \frac{mg}{mL})(10 mL)}{10 mL + 200 mL}$ $C_{eq} = 2 c^{mn}$ $V_{eq} = 2 c^{mn}$

$$^{C_{eq}}=2.3\frac{mg}{mL}=2.3\frac{g}{L}$$

The concentration at equilibrium is 2.3 g/L

Comment [S6]: 7/7

R3. Estimating the diffusion coefficient D (cm2/min) of glucose across the dialysis membrane