

Calculations

$$\text{Glucose MW: } 180.16 \frac{g}{mol}$$

$$\text{Acetate MW: } 59.04 \frac{g}{mol}$$

$$\text{Carbon MW: } 12 \frac{g}{mol}$$

$$\text{Glucose NC: } 6$$

$$\text{Acetate NC: } 2$$

$$\text{biomass: } X \frac{g}{L}$$

1.2 % Glucose:

$$\frac{1.2}{100} = 0.012 \frac{g}{ml}$$

$$0.012 \frac{g}{ml} * 1000 = 12 \frac{g}{L}$$

$$\frac{\frac{g}{L}}{\frac{g}{mol}} = \frac{g}{L} * \frac{mol}{g}$$

$$\frac{12 \frac{g}{L}}{180.16 \frac{g}{mol}} = 0.0666074600355 \frac{mol}{L}$$

$$0.0666074600355 \frac{mol}{L} * 6 = 0.399642 \frac{\text{carbonmol}}{L} = 399.6 \frac{\text{cmmol}}{L}$$