Question 2 (correction)

On the originally posted SQ Answer key, there was a slight error in the answer to question 2f. The correct solution is below:

f) Determine Kcat for *E. coli* β-galactosidase. **Show your calculations, and include units!**

Kcat (*E. coli*) = Vmax *E. coli*/[Etot] ; Y intercept = 1/Vmax = 0.12 mL*min/nmol ONP

$$\text{Vmax} = 8.33 \text{ nmol ONP/mL*min}$$

$$\text{Kcat} = \frac{8.33 \text{ nmol ONP/mL*min}}{2.5 \times 10^{-11} \text{ moles/mL}} = 3.33 \times 10^{11} \text{ U/moles}$$