

















Figure 1. The E. coli fatty acid biosynthesis pathway.















### Difference in final [NADH] due to triclosan



### Determine triclosan by measuring NADH



# How can we measure NADH?







Which of these solutions will let more light through?







#### proportional to

## CONCENTRATION



### Which of these solutions will have a higher absorption value?





### How might we represent this graphically?









Absorption can occur only when  

$$\Delta \mathbf{E} = \mathbf{E}2 - \mathbf{E}1 = \frac{\mathbf{hc}}{\mathbf{\lambda}}$$



Energy is quantized

Every chemical has a unique electron orbital,

Thus each chemical has a specific energy required to bump its molecules to a higher orbital

Specific energy = specific wavelength







### Difference in final [NADH] due to triclosan





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