

Biology 313: Physiology Lab & Recitation
Final Exam Study Guide

Lab Week 2: Cyanide and Electron Transport

Measure effects of cyanide on the electron transport train

- Spectrophotometer: optical instrument to measure intensity of light relative to wavelength
 - Transmittance vs. absorbance
 - (T), amount of light that is transmitted, passes through to the other side
 - (A), amount of light that is absorbed
 - Blanks are used to calibrate the spectrophotometer readings, zeroes out scale
- DCIP: a dye to measure redox reactions
 - Dye will change from blue to clear when reduced
 - Redox reactions occur when electrons are transferred from compounds with more negative redox potentials (E_o) to more positive
 - Donor is oxidized (negative)
 - Recipient is reduced (positive)
 - Electrons transferred from (negative) $\rightarrow$ (positive)

Compound	E_o (V)
Succinate	-0.67
FAD	-0.180
Cytochrome C	+0.22
O_2	+0.82

- Compounds above greater than E_o indicated cannot reduce
- Results
 - $Y = -0.033x + 0.675$, $r^2 = 0.88$
 - $Y = mx + b$
 - $Y =$ absorbance
 - $x =$ time
 - $m =$ slope $= \Delta \text{absorbance} / \Delta \text{time}$
 - $b =$ initial value of absorbance
 - $r^2 =$ correlation coefficient, measures the goodness of fit
- Succinate $\rightarrow$ FADH $\rightarrow$ Cytochrome C $\rightarrow$ O_2
 - Cyanide inhibits transfer of electron from cytochrome C to oxygen
 - DCIP gets electrons from FADH
- Cyanide and electron transport
 - Cyanide blocks transfer of electrons from Cytochrome C to O_2
 - Decreases rate of absorbance
 - Increases rate of electron flow to DCIP
 - When electrons flow to O_2 , electrons move away from upstream reagents thus becoming less reduced
 - When electron flow to O_2 is inhibited by cyanide, electrons moves towards upstream reagents ("back-up") thus becoming more reduced— more electrons are available to DCIP

Lab Final Exam Physiology Ucf Study Guide

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PhD, Susan M. Barman, Scott Boitano**



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