

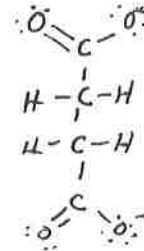
Name: Key

Quiz 21

Succinate dehydrogenase catalyzes the conversion of succinate to fumarate.

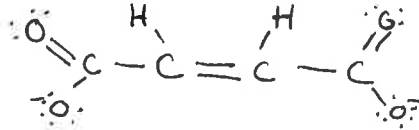
1. Draw succinate and determine the number of valence electrons.

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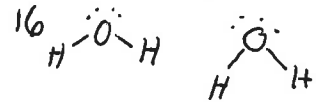


2. Draw fumarate and determine the number of valence electrons.

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3. Is the conversion of succinate to fumarate an oxidation or reduction reaction? *oxidation*
4. How many electrons will be carried by succinate dehydrogenase's redox cofactor (FAD)? *2*
5. Balance the following reaction:



6. How many Cytochrome C (Fe^{2+}) are required by Complex IV to process one O_2 ?

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