

CONCEPT: INTRO TO COENZYMES

- Many reactions we will see involve redox reactions catalyzed by dehydrogenases, a subclass of _____.
 - Dehydrogenases require coenzymes to become active.

Types of Coenzymes

- The most common coenzymes we will need to know are the following:

| Types of Coenzymes | |
|---|------------|
| Coenzyme | Structure |
| Adenosine Triphosphate (ATP) | <p>ATP</p> |
| Nicotinamide adenine dinucleotide (NAD ⁺) | <p>ADP</p> |
| Flavin adenine dinucleotide (FAD) | <p>ADP</p> |
| Coenzyme A | <p>ADP</p> |

- Coenzymes ____ and ____ represents vitamins whose complete complex structures are beyond the scope of this course.

EXAMPLE: Identify the substrate, coenzyme and product for the following reaction which involves the enzyme succinate dehydrogenase.

