

Instructions: After completing the Fermentation virtual lab and post-lab quiz in Connect, answer the following questions. Submit a PDF of your answers to the assignment in Canvas by 11:59pm on Thursday, April 23rd.

Questions:

1. The first step in the process of cellular respiration is glycolysis, in which glucose is converted to pyruvate, and NAD^+ is reduced to NADH . This process creates 2 net ATP. In order for glycolysis to continue repeatedly, NADH must be oxidized back to NAD^+ . (Note: You may want to review Figure 1 on p. 62 in the lab manual, shown below, and the Fermentation video in the Canvas module to answer the two questions below.)

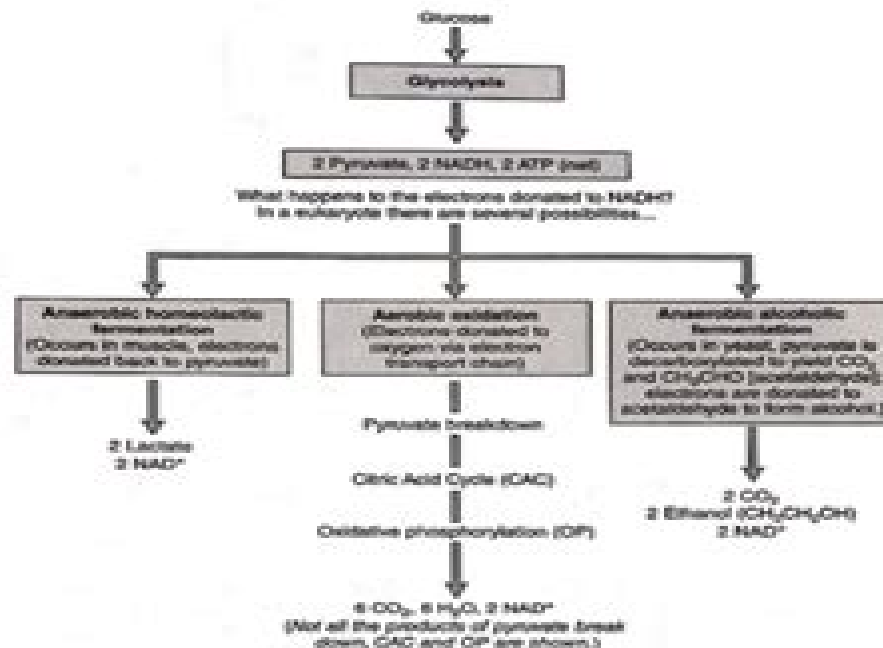


Figure 1. One of the products of glycolysis is NADH , which is rich in electrons. What happens to those electrons? In eukaryotes in the presence of oxygen, NADH donates its electrons to the electron transport chain in the inner membrane of the mitochondria. If oxygen is not present, then pyruvate remains in the cytosol. NADH then donates its electrons back to pyruvate. If this occurs in muscle the product is lactate ($\text{CH}_3\text{CH}(\text{OH})\text{COO}^-$); if this occurs in yeast the product is ethanol ($\text{CH}_3\text{CH}_2\text{OH}$).

- a. In the presence of oxygen, how is NADH oxidized back to NAD^+ ? (1 pt)
- b. Fermentation occurs in the absence of oxygen, so it cannot use the same process to regenerate NAD^+ . How does alcoholic fermentation solve the problem of converting NADH to NAD^+ so that glycolysis (and therefore ATP production) can continue? (1 pt)

Section 1 Glycolysis Fermentation Study Guide Answers

David Baud



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