

Mastering Biology Chapter 9 Quiz 1 | with complete solution | updated 2024

Substrate-level phosphorylation accounts for approximately what percentage of the ATP formed by the reactions of glycolysis?

- a. 0%
- b. 100%
- c. 38%
- d. 10%
- e. 2% - b. 100%

During glycolysis, when each molecule of glucose is catabolized to two molecules of pyruvate, most of the potential energy contained in glucose is

- a. stored in the NADH produced.
- b. used to phosphorylate fructose to form fructose 6-phosphate.
- c. retained in the two pyruvates.
- d. transferred directly to ATP.
- e. transferred to ADP, forming ATP. - c. retained in the two pyruvates.

In addition to ATP, what are the end products of glycolysis?

- a. NADH and pyruvate
- b. CO₂ and pyruvate
- c. CO₂ and NADH
- d. CO₂ and H₂O
- e. H₂O, FADH₂, and citrate - a. NADH and pyruvate

Starting with one molecule of glucose, the energy-containing products of glycolysis are

- a. 6 CO₂, 2 pyruvate, and 2 ATP.
- b. 6 CO₂, 2 pyruvate, and 30 ATP.
- c. 2 FADH₂, 2 pyruvate, and 4 ATP.
- d. 2 NADH, 2 pyruvate, and 2 ATP.
- e. 2 NAD⁺, 2 pyruvate, and 2 ATP. - d. 2 NADH, 2 pyruvate, and 2 ATP.

Which kind of metabolic poison would most directly interfere with glycolysis?

- a. an agent that closely mimics the structure of glucose but is not metabolized
- b. an agent that blocks the passage of electrons along the electron transport chain
- c. an agent that reacts with oxygen and depletes its concentration in the cell
- d. an agent that binds to pyruvate and inactivates it
- e. an agent that reacts with NADH and oxidizes it to NAD⁺ - a. an agent that closely mimics the structure of glucose but is not metabolized

A glucose molecule is completely broken down to carbon dioxide and water in glycolysis and the citric acid cycle, but together these two processes yield only a few molecules of

Mastering Biology Comprehensive Quiz

Brendan G. Carr



Mastering Biology Comprehensive Quiz:

Mastering Biology Comprehensive Quiz Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the power of words has be more evident than ever. They have the capability to inspire, provoke, and ignite change. Such is the essence of the book **Mastering Biology Comprehensive Quiz**, a literary masterpiece that delves deep into the significance of words and their effect on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

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