

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 Chapter 4 Answers

Thomas Griffiths



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Table of Contents Mastering Biology Chapter 4 Answers

1. Understanding the eBook Mastering Biology Chapter 4 Answers
 - The Rise of Digital Reading Mastering Biology Chapter 4 Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Mastering Biology Chapter 4 Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Mastering Biology Chapter 4 Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mastering Biology Chapter 4 Answers
 - Personalized Recommendations
 - Mastering Biology Chapter 4 Answers User Reviews and Ratings
 - Mastering Biology Chapter 4 Answers and Bestseller Lists
5. Accessing Mastering Biology Chapter 4 Answers Free and Paid eBooks
 - Mastering Biology Chapter 4 Answers Public Domain eBooks
 - Mastering Biology Chapter 4 Answers eBook Subscription Services
 - Mastering Biology Chapter 4 Answers Budget-Friendly Options

6. Navigating Mastering Biology Chapter 4 Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Mastering Biology Chapter 4 Answers Compatibility with Devices
 - Mastering Biology Chapter 4 Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mastering Biology Chapter 4 Answers
 - Highlighting and Note-Taking Mastering Biology Chapter 4 Answers
 - Interactive Elements Mastering Biology Chapter 4 Answers
8. Staying Engaged with Mastering Biology Chapter 4 Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mastering Biology Chapter 4 Answers
9. Balancing eBooks and Physical Books Mastering Biology Chapter 4 Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mastering Biology Chapter 4 Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Mastering Biology Chapter 4 Answers
 - Setting Reading Goals Mastering Biology Chapter 4 Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mastering Biology Chapter 4 Answers
 - Fact-Checking eBook Content of Mastering Biology Chapter 4 Answers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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