

# 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. CO<sub>2</sub> and pyruvate
- c. CO<sub>2</sub> and NADH
- d. CO<sub>2</sub> and H<sub>2</sub>O
- e. H<sub>2</sub>O, FADH<sub>2</sub>, and citrate - a. NADH and pyruvate

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

- a. 6 CO<sub>2</sub>, 2 pyruvate, and 2 ATP.
- b. 6 CO<sub>2</sub>, 2 pyruvate, and 30 ATP.
- c. 2 FADH<sub>2</sub>, 2 pyruvate, and 4 ATP.
- d. 2 NADH, 2 pyruvate, and 2 ATP.
- e. 2 NAD<sup>+</sup>, 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<sup>+</sup> - 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

**Ying Liu**



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web aug 23 2000 part 6 advanced cardiovascular life support section 1 introduction to acls 2000 overview of recommended changes in acls from the guidelines 2000 conference european resuscitation council

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web oct 21 2020 abstract this 2020 international consensus on cardiopulmonary resuscitation and emergency cardiovascular care science with treatment recommendations for advanced life support includes updates on multiple advanced life support topics addressed with 3 different types of reviews

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web design and setting case series of 176 adult patients with out of hospital cardiac arrest treated by paramedics and nurse anesthetists in stockholm sweden london england and akershus norway between march 2002 and october 2003 the defibrillators recorded chest compressions via a sternal pad fitted with an accelerometer and ventilations by

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web jan 24 2022 home circulation cardiovascular quality and outcomes vol 15 no 4 2022 interim guidance to health care providers for basic and advanced cardiac life support in adults children and neonates with suspected or confirmed covid 19 from the emergency cardiovascular care committee and get with the guidelines



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web mar 22 2022 in this chapter we summarize key practice recommendations drawn from the most recent guideline updates relating to advanced life support als 4 5 post resuscitation care and prognostication