Study Guide

CHAPTER 8

Section 3: Cellular Respiration

In your textbook, read about cellular respiration and glycolysis.

Use each of the terms below only once to complete the passage.

-acrobic -anacrobic-

-mitochendria

eellular respiration
-NADH-

-cytopiesm

-emergic

Organisms obtain energy in a process called (1) Colleger respiration. This process harvests electrons from carbon compounds, such as (2) glucose ______, and uses that energy to make (3) ______. ATP is used to provide (4) _______.

takes place in the (7) ________. Two molecules of ATP and two molecules of

(8) NADH are formed for every glucose molecule that is broken down.

(9) Aerobic respiration takes place in the (10) mictochondria

It is aerobic because the process requires (11) _OXMACO.

Refer to the diagram of glycolysis. Label the steps in the description to match the diagram.

- Step ______. Each three-carbon compound is converted into a three-carbon pyruvate.
- Step _____. A six-carbon compound is broken down into two three-carbon compounds.
- Step _____. Phosphate groups from two ATP molecules are transferred to a glucose molecule.
- Step _3_. Two NADH molecules and four ATP molecules are produced.

Respond to each auestion.

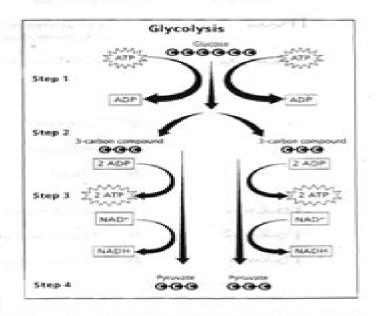
16. Interpret How many total ATP molecules are produced from the glycolysis of one six-carbon glucose?

en immerale along all companions

2 net ATP, 4 are produced.

17. Explain Why is there a net gain of only two ATP molecules in the glycolysis of one six-carbon glucose?

4 are produced, but 2 are used to for ADP + P; so a net gain of 2 ATP



Glycolysis And Respiration Study Guide Answers

Ian Pickup

Glycolysis And Respiration Study Guide Answers:

AP Biology Study Guide Sundar Nathan,2009-11 Sundar Nathan received a Bachelor's degree in Electrical Engineering from Anna University Chennai India and a Masters degree in Biomedical Engineering from the University of Texas at Austin Working for over a year with a team of talented Phds MPhils and MScs from all over the world Sundar compiled this comprehensive study guide to help students prepare diligently understand the concepts and Crush the AP Bio Test

Life
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