

Cellular Respiration POGIL | questions and answers | 100% verified | updated 2024/2025

What is represented by the hexagon? Glucose (6C)

How many carbon atoms (C) are in one molecule of glucose? 6

How many carbon atoms (C) are in one molecule of pyruvic acid? 3

In the process of glycolysis, what happens to glucose after it crosses the cell membrane into the cytoplasm of the cell? It splits into 2 pyruvic acids when it crossed.

Thinking about the number of carbon atoms in glucose and in pyruvic acid, explain why there is one molecule of glucose on the left side of the arrow and two molecules of pyruvic acid on the right side of the arrow. There is only 3 carbon in pyruvic acid, so since glucose had 6 carbon, it split into 2 pyruvics making 6 altogether.

How many ATP molecules are produced during glycolysis? 2

Hydrogen-carrying molecules are also produced during glycolysis. What is the symbols of these hydrogen-carrying molecules? NADPH

Does glycolysis occur inside or outside the mitochondria? Outside

According to Model 2, what happens to pyruvic acid during the Krebs's cycle? It turns into 3 molecules of carbon dioxide.

According to Model 2, where does the change identified in the previous question occur? Mitochondrial matrix.

Note the number of atoms of carbon in pyruvic acid and explain why three molecules of carbon dioxide are produced. Each pyruvic acid molecule contains 3 carbon atoms and each carbon dioxide molecule contains only 1. $3 \times 1 = 3$

Considering the glycolysis produces 2 pyruvic acid molecules per glucose molecule, how many total CO₂ molecules will be produced from the complete breakdown of each glucose molecule? Show a mathematical equation to support your answer. 6 because each pyruvic acid has 3 carbons and 2 pyruvic molecules are produced. ($3 \times 2 = 6$)

What 2 hydrogen carrying molecules are formed during the Krebs's cycle? NADH, FADH₂

Glycolysis ATP-2 NADH-2 FADH₂-0

Pogil Biology Cellular Respiration Answers

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