



Mi Universidad

Clicolisis

comparativo

Nombre del Alumno: jolet torres gomez

Nombre del tema: clicolisis

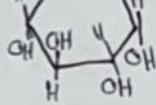
Parcial: I

Nombre de la Materia: bioquímica I

Nombre del profesor: Abel dichi

Nombre de la Maestría: medicina veterinaria y zootécnica

Cuatrimestre: I



activation by phosphorylation
2 ATPs invested

Glucose

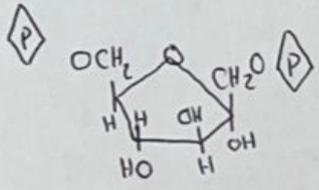
1

ATP

2

3

ATP

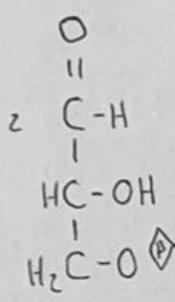


Fructose-1,6-bisphosphate

Reactions 4 and 5
Cleavage of six-carbon sugar phosphate to 2 three-carbon phosphates

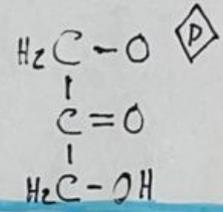
4

5



Glyceraldehyde-3-phosphate

Dihydroxyacetone phosphate

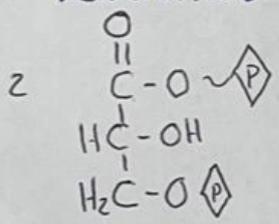


ENERGY GENERATION PHASE

6

2 NADH

Reaction 6
Generation of 2 NADH and a super-high-energy compound

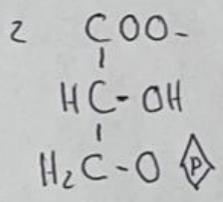


1,3-Bisphosphoglycerate

7

2 ATP

Reaction 7
substrate-level phosphorylation
2 ATP generated

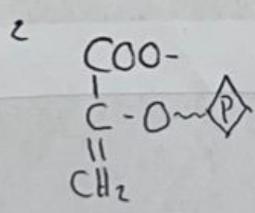


3-Phosphoglycerate

Reaction 8 and 9
Generation of a super-high-energy compound (and water)

8

H₂O



Phosphoenpyruvate

Reaction 10
substrate-level phosphorylation
2 ATPs generated

9

2 ATP

