



# Mi Universidad

## Clicolisis

### comparativo

*Nombre del Alumno: jolet torres gomez*

*Nombre del tema: clicolisis*

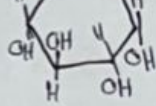
*Parcial: I*

*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

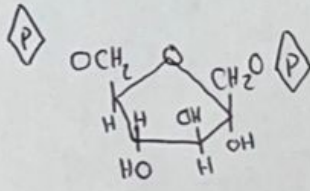
1

ATP

2

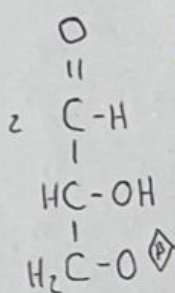
3

ATP



Fructose-1,6-bisphosphate

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

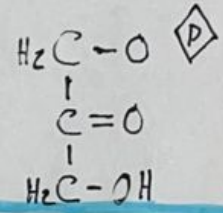


4

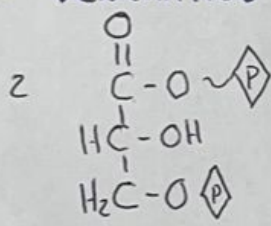
5

Glyceraldehyde-3-phosphate

Dihydroxyacetone phosphate



ENERGY GENERATION PHASE

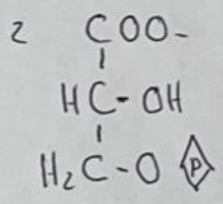


6

2 NADH

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

1,3-Bisphosphoglycerate



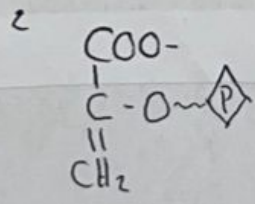
7

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)



Phosphoenpyruvate

10

2 ATP

Reaction 10  
substrate-level phosphorylation  
2 ATPs generated

