



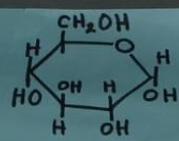
Nombre del alumno: Hugo Benjamín Aguilar Sánchez

Nombre del profesor: Abel Estrada Dichi.

Nombre del trabajo: Glucolisis.

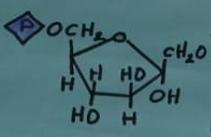
Materia: Bioquímica.

Grupo: Lic. Medicina Veterinaria y Zootecnia.



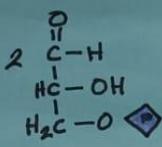
GLUCOSE

Reactions 1-3
Activation by Phosphorylation
2 ATPs invested

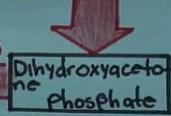


Fructose-1,6-bisphosphate

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

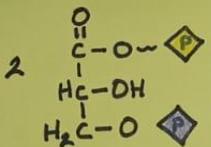


Glyceraldehyde 3-phosphate



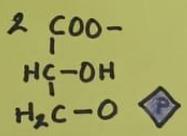
Dihydroxyacetone phosphate

ENERGY GENERATION PHASE



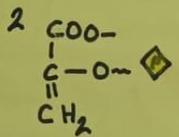
1,3-Bisphosphoglycerate

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



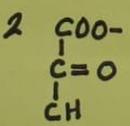
3-Phosphoglycerate

REACTION 7
Substrate-level phosphorylation.
2 ATPs generated



Phosphoenolpyruvate

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



Pyruvate

REACTION 10
Substrate-level Phosphorylation
2 ATPs generated