

Intro to Biochemistry Exam 3 Study Material:  
-By: Hannah Pipes  
IUPUI 2018

Blue = Equation, concept

Yellow = Term, Cycle Step

## Lecture 15 Expectations

### 1.) Net Equation for Glycolysis



b.) Conversion of Glucose into pyruvate

c.) Synthesis of ATP and NADH

d.) Highly conserved pathways

### 2.) Know the substrate, product, and enzyme for each of the 10 steps of glycolysis

#### a.) Step 1:

i.) Substrate: Glucose + ATP

ii.) Product: Glucose 6-phosphate

iii.) Enzyme: Hexokinase

#### b.) Step 2:

i.) Substrate: Glucose 6-phosphate

ii.) Product: Fructose 6-phosphate

iii.) Enzyme: Phosphohexose isomerase

#### c.) Step 3:

i.) Substrate: Fructose 6-phosphate

ii.) Product: Fructose 1,6-bisphosphate

iii.) Enzyme: Phosphofructokinase-1 (PFK-1)

#### d.) Step 4:

i.) Substrate: Fructose 1,6-bisphosphate

ii.) Products: Dihydroxyacetone phosphate + Glyceraldehyde 3-phosphate

iii.) Enzyme: Aldolase

#### e.) Step 5:

i.) Substrate: Dihydroxyacetone phosphate

ii.) Product: Glyceraldehyde 3-phosphate

iii.) Enzyme: Triose phosphate isomerase

#### f.) Step 6:

i.) Substrates: Glyceraldehyde 3-phosphate + inorganic phosphate

# College Biochemistry Study Guide

**Wenbin Ji**



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