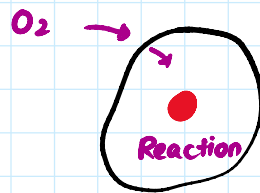


Respiration

CELLULAR RESPIRATION



ORGANISMIC RESPIRATION

→ Exchange of CO_2 & O_2 with environment and organism.

AEROBIC RESPIRATION

✓

O_2 - Requirement

- Complete breakdown of C-H bonds.
- End product
 $H_2O + CO_2 + ATP$

↑↑

Energy

Production

↓↓

Net ATP

Eukaryotic cell → 36
Prokaryotic cell → 38

✓

✓

✓

Glycolysis

P.A - Oxidation

Kreb's Cycle

ANAEROBIC RESPIRATION

✗

- Incomplete breakdown of energy source
- End Product

- Alcohol (Alcoholic Fermentation)
- Lactic Acid (Lactic Acid Fermentation)

Net ATP

Prokaryotic → 2 ATP

✓

✗

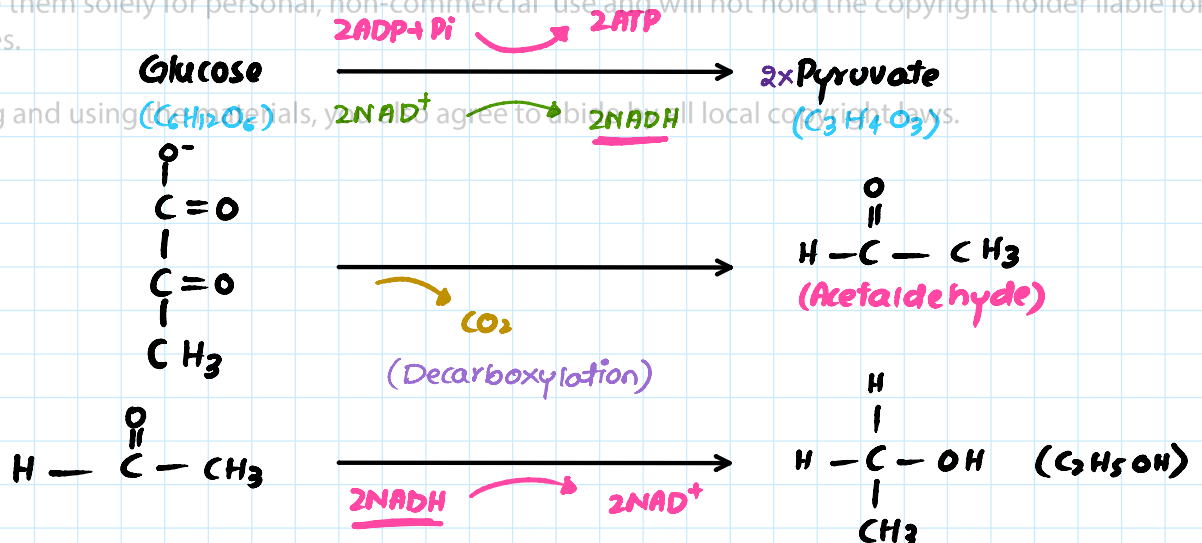
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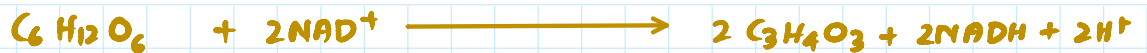
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ALCOHOLIC FERMENTATION → Not in mammalian cell

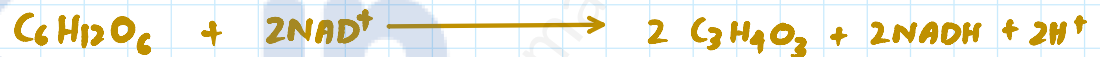
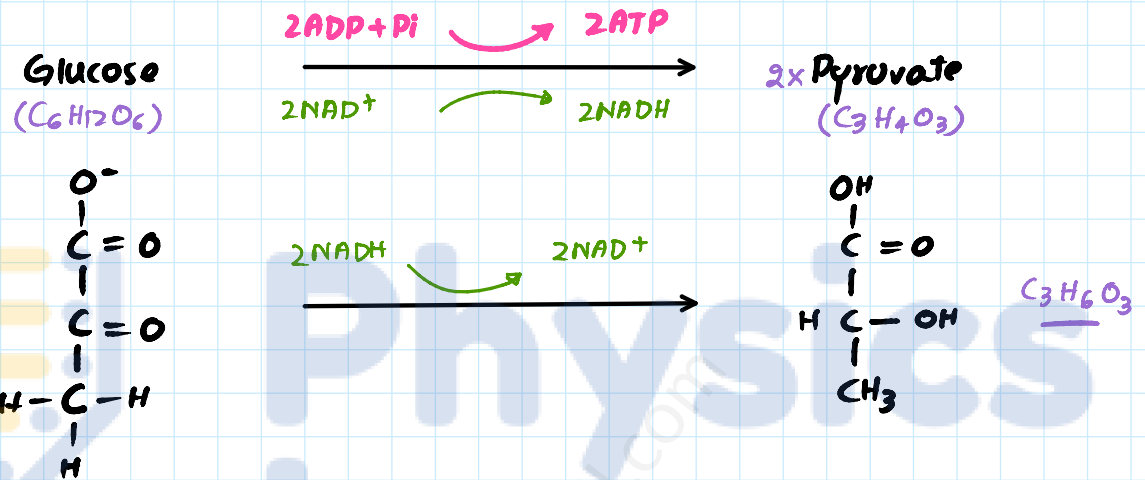
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LACTIC ACID FERMENTATION \rightarrow Prokaryotic + Eukaryotic
(mammalian cell)



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