

Table 9.1 ATP Yield from the Aerobic Oxidation of Glucose

Glycolytic Pathway

Substrate-level phosphorylation (ATP)	2 ATP ^a
Oxidative phosphorylation with 2 NADH	6 ATP

2 Pyruvate to 2 Acetyl-CoA

Oxidative phosphorylation with 2 NADH	6 ATP
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Tricarboxylic Acid Cycle

Substrate-level phosphorylation (GTP)	2 ATP
Oxidative phosphorylation with 6 NADH	18 ATP
Oxidative phosphorylation with 2 FADH ₂	<u>4 ATP</u>

Total Aerobic Yield

38 ATP

^aATP yields are calculated with an assumed P/O ratio of 3.0 for NADH and 2.0 for FADH₂.