

# CELLULAR RESPIRATION



Cellular respiration is the process by which food, in the form of sugar (glucose), is transformed into energy within cells. This energy is stored in ATP molecules, which then power all sorts of cellular processes. Respiration that requires oxygen is known as aerobic respiration; respiration that occurs without oxygen is called anaerobic respiration.

## Aerobic Respiration

1 The first stage of aerobic respiration is **glycolysis**, where **glucose** molecules are broken down to create **ATP** in a cell's cytoplasm. Although the process consumes two ATP molecules, it produces four more, as well as two other substances: **pyruvate** and **NADH**.

2 In the second stage, which occurs in the **mitochondria** of a cell, pyruvate is used to create **acetyl coenzyme A** and **carbon dioxide**.

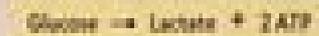
3 The third stage is known as the **citric acid cycle**, or **Krebs cycle**. In this stage, acetyl coenzyme A is used to create more **NADH**, as well as **FADH<sub>2</sub>**, **carbon dioxide**, and an additional **ATP** molecule.

4 In the final stage, **NADH**, **FADH<sub>2</sub>**, and **oxygen** are used to create massive amounts of **ATP** through **electron transfer**. This stage also creates **water** molecules.

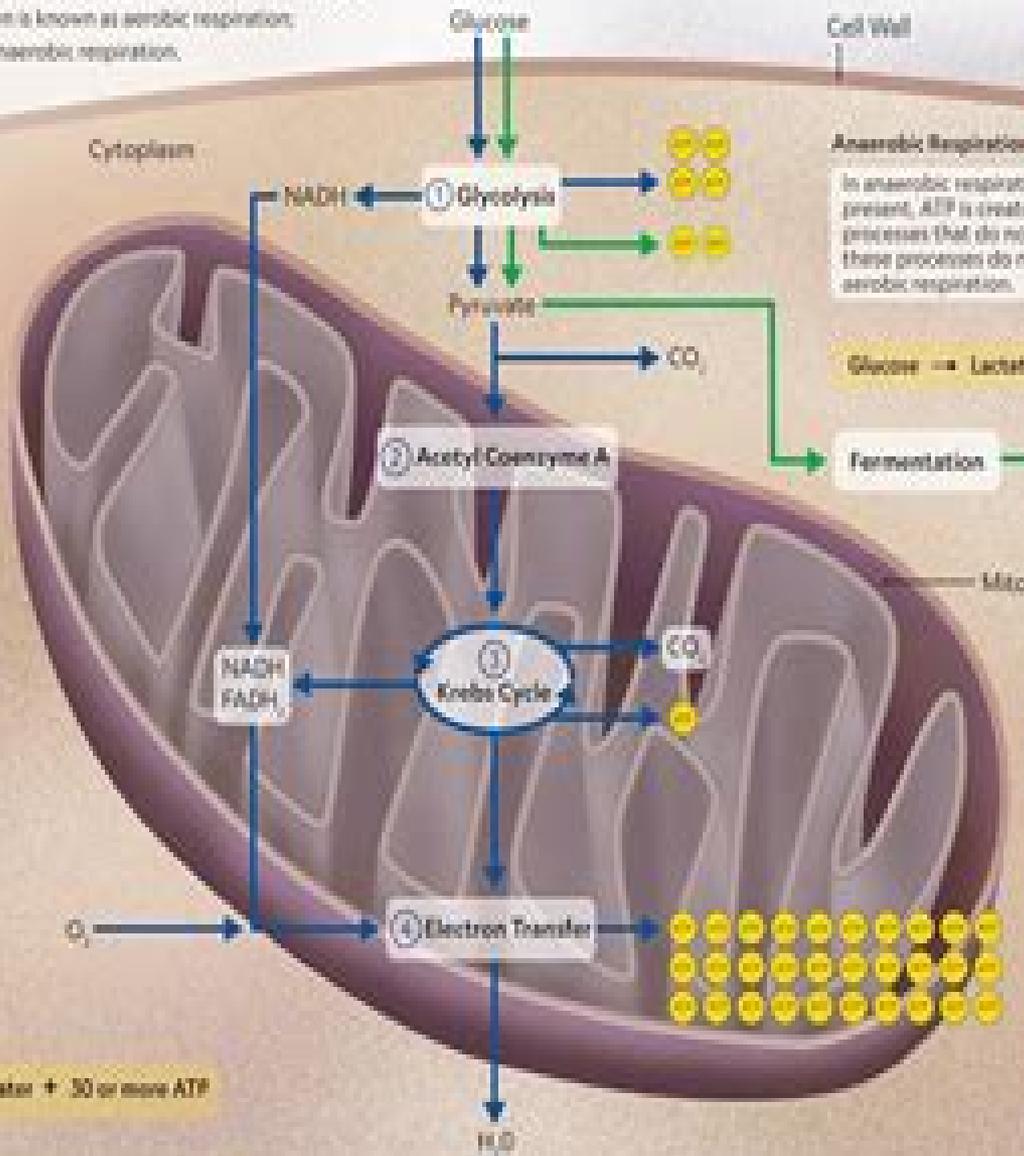


## Anaerobic Respiration

In anaerobic respiration, where there is no oxygen present, **ATP** is created through other chemical processes that do not require oxygen. However, these processes do not produce as much ATP as aerobic respiration.



Fermentation  $\rightarrow$  Lactate



Animal Cell

# Section Overview Of Cellular Respiration 4 4 Study Guide

**Mark Steyvers**



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us4804413a shoe polish composition google patents - Sep 05 2022

web shoe polish composition abstract a non caking shoe polish composition comprising in addition to a traditional base mixture of paraffin wax and turpentine oil refined petroleum jelly silicone

**homepage sitil boya** - Feb 27 2022

web sports shoe care shoe cream browse products liquid shoe polish browse products cleaning sponge browse products renovator spray browse products functional spray liquid shoe polish 80 ml 102 ltb liquid suede nubuck liquid renovator 100 ml 110 ssns shoe cream 100 ml 151 skb shoe cream 60ml 101 skb all products

**formulation of a black leather shoe polish from castor oil** - Jun 14 2023

web may 23 2005 in this work trial formulations for black leather polish using castor wax from hydrogenated castor oil and

carbon black dye with benzene or ethanol as solvent were obtained and analyzed

**preparation and characterization of shoe polish from** - Apr 12 2023

web jul 16 2021 abstract shoe polish is a type of waxy paste that used in gloss rub resistance fading resistance and dust resistance by providing a thin film on the surfactants of the shoe

*pdf shoes polish production using the concept of chemical engineering* - Dec 08 2022

web modern shoe polish production employed a mixture of natural and synthetic materials that include wax lanolin naphtha ethylene glycol turpentine oil soluble dyes and gum arabic were processed by straight forward chemical engineering method

**pdf evaluation and examination of a possible shoe polish trace** - Aug 04 2022

web jan 1 2016 in this article we show how the bayesian framework can be applied to a hold up case involving a possible shoe polish trace according to one of the parties this article highlights the importance

**cn11218218a method for producing shoe polish by using** - Dec 28 2021

web the embodiment of the invention provides a method for producing shoe polish by using wastewater generated in the production of gallic acid which comprises the following steps adding calcium hydroxide suspension into wastewater from gallic acid production mixing standing and filtering to obtain filtrate

*pdf formulation of a black leather shoe polish from hydrogenated* - Feb 10 2023

web mar 6 2005 the functional group of the prepared shoe polish was also identified using ftir analysis and the ftir peaks confirmed the presence of a long chain ester group in the shoe polish