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Metabolism (/ m ə ' t æ b ə l ɪ z ə m /, from Greek: μεταβολή metabolē, "change") is the set of life-



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sustaining chemical reactions in organisms. The three main purposes of metabolism are: the conversion of the energy in food to energy available to run cellular processes; the conversion of food to building blocks for proteins, lipids, nucleic acids, and some carbohydrates; and the ...

**Metabolism -**  
*Page 9/29*

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The center of any chemical process is the reactor, where chemical reactions are carried out to transform feeds into products. Reactor design is a vital step in the overall design of a process. It is important to ensure that the equipment specified will be capable of achieving the desired yields and selectivity.

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**Reactors -**

**processdesign**

Sterilization refers to any process that removes, kills, or deactivates all forms of life (in particular referring to microorganisms such as fungi, bacteria, spores, unicellular eukaryotic organisms such as Plasmodium, etc.) and other biological agents like prions present in a specific surface, object

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or fluid, for example  
food or biological  
culture media.

## **Sterilization (microbiology) - Wikipedia**

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Yang et al. (2018) reported chemical control kinetics up to 10 min with the value of rate constant in between 0.03-0.08 min<sup>-1</sup>, however, the value of rate constant for chemical control kinetics up to 2 min is 0.2208 min<sup>-1</sup> in the present study and supports fast reaction kinetics in formic acid.

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metabolism is  
important in  
bioprocesses David R.  
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University 6 Types of  
Metabolism Catabolism  
Metabolic reactions in  
the cell that degrade a  
substrate into smaller /

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simpler products.

Glucose  $\rightarrow$  CO<sub>2</sub>

Anabolism Metabolic reactions that result in the synthesis of larger / more complex molecules.

## **Chapter 5: Major Metabolic Pathways**

Reviews the broad field of chemical (and related) engineering.

Addressing advances in applied chemistry and biology, with a focus on concepts, old and new



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materials, and/or processes. The journal draws from disciplines as diverse as biology, physics, and engineering, with development of chemical products and processes as the unifying theme.

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Mass and energy are of course intimately

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related in any production process, since for instance a chemical process can be described as the way by which we convert mass and energy into a more valuable product. In a chemical process, we start with raw materials (mass) and then require steam (energy) to carry out chemical and physical transformations.

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the sea, a process that requires costly pumping systems and that must be managed carefully to prevent damage to marine ecosystems.

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(GST) and cybernetics  
were highly interwoven  
interdisciplinary  
approaches to science.

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