

UNIT ONE

THE IMPORTANCE OF BIOTECHNOLOGY

Biological processes have had central importance in the foodstuffs industry, in particular, for thousands of years, but it is only in the last hundred years that they have been applied more intensively in chemical technology.

At the present time, modern biotechnology is capable of becoming a part of industry of increasing economic importance.

The field of operation of biotechnology consists of three large areas:

1. Microbiology, including microbial genetics;
2. Biochemistry, physical chemistry, and technical chemistry; and
3. Process engineering and apparatus constructions.

Biotechnology is developing by close interweaving between these areas and can develop further only by means of an interdisciplinary cooperation between them.

Many products can be manufactured only biotechnological. This applies particularly to most of the secondary metabolic products such as, for example, antibiotics, vitamin B₁₂, and many others, but it is also applies to many products that are manufactured by a microbial transformation and which cannot be produced profitably in any other way, such as, for example, steroids and many estrogenic ovulation inhibitors that are used as "antibody pills". At the present time about 90 antibiotics for medical use are manufactured industrially. The production of antibiotics is in the order of more than 30,000 tons per years. Even special antibiotics, such as monensin, a coccidiostat and animal feed supplement, and validamycin, which is used in Japan for the control of phytopathogenic bacteria, are already being manufactured on the ton scale.

More than 20 amino acids are offered by various industries as biotechnological prepared products. Of these glutamic acid is particularly important with a current production of about nearly 300,000 tons per year.

More than 25 enzymes are produced technically. It is impossible nowadays to imagine the economy without their use, for example, rennet in the USA, for the manufacture of cheese, and as proteases and amylases in many branches of industry. The situation is similar with citric acid, the manufacture of which has assumed an important place in foodstuffs chemistry.

Millions of people in the world owe their lives to the use of antibiotics. The same applies to other therapeutic agents, including vaccines, which are likewise largely produced biotechnological. Many people do not realize that for us the antibiotics practically represent the "philosophers' stone" of the Middle Ages which was sought and pursued with such great labor.

The Language Of Biotechnology

Richard Sherlock, John D. Morrey



The Language Of Biotechnology:

Unveiling the Magic of Words: A Review of "**The Language Of Biotechnology**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**The Language Of Biotechnology**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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