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Issue No. 2
What are Bio Reactors?

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ISSUE # 2

WHAT ARE BIO REACTORS?





VESSELS FOR ORGANISMS

A Bioreactor is a vessel in which a chemical process involving organisms or biochemically active substances derived from such organisms is carried out.

POOL PARTY FOR CELLS

Unlike traditional reactors where chemicals are mixed, bio reactors work to produce the right conditions for cells to work. They ensure ideal setting of temperature, pH, gas supply and nutrients for successful growth of cells.





WHAT ARE THEY USED FOR?

Everything from cell growth, enzyme production, biocatalysts, food production, milk processing and protein synthesis.

Anything to do with organisms in a lab requires a bio reactor.

TYPES OF BIO REACTORS

There are many types but broadly every bio reactor can be classified into two categories

a. Traditional (Stainless Steel Bio Reactors)
b. Single Use Bio Reactors





SINGLE USE BIO REACTORS

Single Use Bio Reactors are taking over.
Over the next 4 years Single Use Bio Reactor Market is expected to grow by 21.6%.
They are a better technology, easier to use and scale and helps increase the potency of reactions.

COMPANIES IN THIS SPACE

ThermoFisher is a leader in this space followed by Merck Millipore. All these companies have an increasing backlog that will take years to fill indicating the rise of Bio Tech industry.

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