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A Review on bioprocess control parameters and optimization

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Bioprocess system control consists of initiate a strategy for the management of the Fermentation system. Bioprocesses include several different unit operations in which a near optimal environment is desired for microorganisms to grow in Lag phase Log phase, multiply in Stationary phase, and produce a desired product and death phase before harvest the product. Bioprocess can be optimized in three modes Batch fermentation process, Fed batch and Continues fermentation process. All these three Modes are operating under specific temperature and pH and D.O rates. pH at constant values favorable to the microbial growth. These are the factors influencing the Microbial growth. The phenomena occurring in the bioprocess are complex, because of their interdependence with the biochemical transfer. It has been observed in several experiments that controlling pH in bioprocesses is not limited in providing optimum growth conditions to the microorganisms. This review mainly focuses on the factor that effecting microbial growth and bioprocess optimization techniques.

Biography

Mahmad Shareef completed his Master in Biotechnology from JNTU. Now he is working on Biofuels production.

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