

Recyclable and Integrated Aqueous Two-phase System (ATPS) for Cost-effective Recovery of Biotechnological Products

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Abstract:

Aqueous two-phase system (ATPS) has been well-known as an efficient separation technology in the bioprocessing industry. This liquid-liquid partitioning technique represents an important and interesting advance in downstream bioprocessing due to several advantages such as simplicity, rapid separation, efficiency, economy, flexibility and biocompatibility. Up to date, a range of biotechnological products have been successfully recovered from different sources with high yield using ATPS-based strategy with recyclable capability. In view of the important potential contribution of the ATPS in downstream bioprocessing, this power point presentation aims to provide latest information about the application of ATPS for cost-effective recovery of various biotechnological products. Apart from that, the challenges as well as the possible future work and outlook of the ATPS-based recovery method have also been presented in this article