

Partitioning In Aqueous Two Phase System



Partitioning In Aqueous Two Phase

The replacement of organic by aqueous solutions in immiscible two-phase systems has permitted the application of the classical separatory method of resolving components of a mixture by partitioning not only to labile macromolecules but also to cells, membranes, and organelles.

Partitioning in aqueous two-phase systems: recent results ...

The two phases. In general, aqueous (or water-based) solutions, being polar, are immiscible with non-polar organic solvents (chloroform, toluene, hexane etc.) and form a two-phase system. However, in an ABS, both immiscible components are water-based.

Aqueous two-phase system - Wikipedia

Description. Partitioning in Aqueous Two-Phase Systems: Theory, Methods, Uses, and Applications to Biotechnology is a collection of papers that discusses the applications of aqueous two-phase systems to problems of separation and extraction of macromolecules, organelles, and cells. Papers focus on the theoretical basis and the practical details...

Partitioning In Aqueous Two - Phase System - 1st Edition

Partitioning in Aqueous Two-Phase Systems: Theory, Methods, Uses, and Applications to Biotechnology is a collection of papers that discusses the applications of aqueous two-phase systems to problems of separation and extraction of macromolecules, organelles, and cells.

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Luisa A. Ferreira, Vladimir N. Uversky and Boris Y. Zaslavsky, Phase equilibria, solvent properties, and protein partitioning in aqueous polyethylene glycol-600-trimethylamine N-oxide and polyethylene glycol-600-choline chloride two-phase systems, Journal of Chromatography A, 10.1016/j.chroma.2018.01.010, 1535, (154-161), (2018).

Partitioning in aqueous two-phase systems: Analysis of ...

The three main issues in physical chemistry of the aqueous two-phase partition technique and its analytical applications are: the mechanism of phase separation in the aqueous mixtures of polymers or a single polymer and a salt; the physicochemical properties of the two phases governing partitioning of solute and the ways to manipulate these ...

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To study the effect of protein net charge and charge distribution on the protein partitioning in aqueous two-phase systems. 2. To study the electrostatic potential difference between the two phases of a phase system and its effect on the charged protein partitioning in phase systems.

Charge effect on protein partitioning in aqueous two-phase ...

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Aqueous Two-Phase Systems. Kula (1987) utilized phase partitioning in aqueous two-phase systems using polyethylene glycol - salt or polyethylene - dextran to separate alcohol dehydrogenase from *Saccharomyces cerevisiae* and from *Candida boidinii*. In all the cases reported high yields between 91 and 96% were obtained.

Phase Partitioning - an overview | ScienceDirect Topics

Aqueous two-phase systems. Abstract Biphasic systems formed by mixing of two polymers or a polymer and a salt in water can be used for separation of cells, membranes, viruses, proteins, nucleic acids, and other biomolecules. The partitioning between the two phases is dependent on the surface properties and conformation of the materials,...

Aqueous two-phase systems | SpringerLink

Affinity partitioning of human antibodies in aqueous two-phase systems. Afterwards, selectivity studies were performed with the most successful ligands first by using systems containing pure proteins and an artificial mixture of proteins and, subsequently, with systems containing a Chinese hamster ovary (CHO) cells supernatant.

Affinity partitioning of human antibodies in aqueous two ...

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Protein Partitioning in Two-Phase Aqueous Polymer Systems

Abstract. Protein partitioning in aqueous two-phase systems is a technique that enables one to monitor changes in the 3D structures of proteins in solution resulting from chemical modifications, conformational changes, and interactions with other proteins and ligands.

Protein Characterization by Partitioning in Aqueous Two ...

The relationship was verified by partitioning 17 proteins covering a wide range of molecular weight in the tie lines of the above systems, along with data from the literature. This correlation will facilitate the selection and engineering scale-up of aqueous two-phase systems for biomolecule purification.

Protein partitioning in PEG/dextran aqueous two-phase ...

Aqueous two-phase system (ATPS) is a liquid-liquid fractionation technique and has gained an interest because of great potential for the extraction, separation, purification and enrichment of proteins, membranes, viruses, enzymes, nucleic acids and other biomolecules both in industry and academia. Although, the partition behavior involved in the method is complex and difficult to predict.

Aqueous two-phase system (ATPS): an overview and advances ...

Aqueous two phase system (ATPS) is a liquid - liquid extraction method which employs two aqueous phases having applications in the field of biotechnology for the separation and purification of ...

Partitioning in Aqueous Two-Phase Systems: Fundamentals ...

Aqueous two-phase systems (ATPSs), formed by mixing two, mutually in-compatible polymers, or one polymer and an inorganic salt, are important for the separation and purification of enzymes, proteins and other substances in biological processes.³ They allow process integration, as both separation and concentration

Pectinases partitioning in aqueous two-phase systems: an ...

Partitioning and Assembly of Metal Particles and Their Bioconjugates in Aqueous Two-Phase Systems Marcus R. Helfrich , Mahnaz El-Kouedi † , Mark R. Etherton ‡ , and Christine D. Keating *
Department of Chemistry, The Pennsylvania State University, University Park, Pennsylvania 16802

Partitioning and Assembly of Metal Particles and Their ...

Aqueous two phase systems (ATPSs) have overcome these demands and emerged as a powerful method for the downstream processing of bio-products. This paper is intended to encourage a starting idea for beginners in using ATPSs technique with biological products. Factors contributing to the partition behavior of biomolecules between the two phases

Recovery of Biological Products in Aqueous Two Phase Systems

Abstract. Culture supernatant containing laccase produced by *Cerrena unicolor* strain was used to examine laccase partitioning between phases in an aqueous two-phase system. The investigated system consisted of polyethylene glycol 3000 and sodium phosphate buffer adjusted to pH = 7.

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