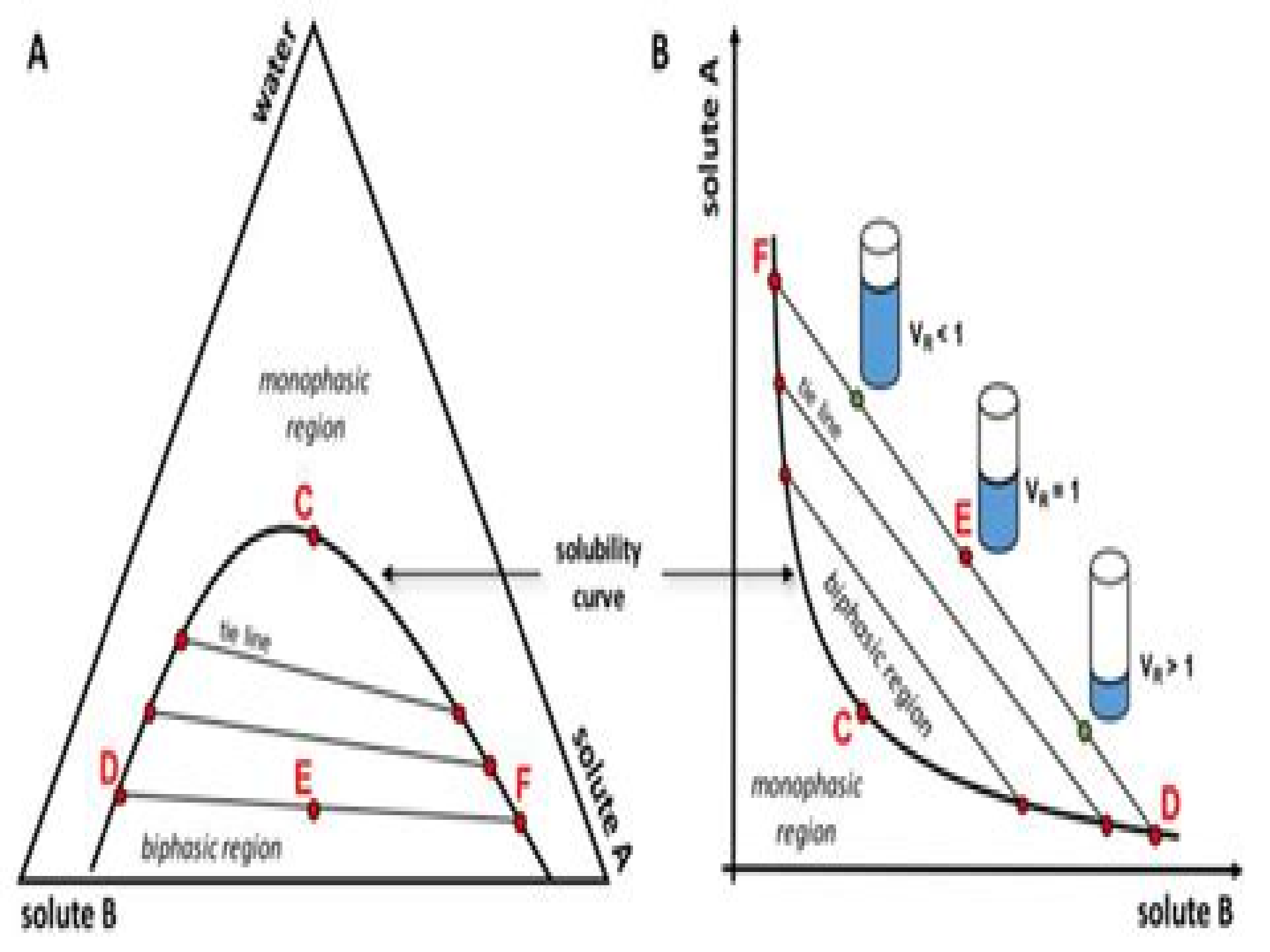
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Aqueous Two Phase Systems

Marco Rito-Palomares,Jorge Benavides

Aqueous Two Phase Systems:

Aqueous Two-phase Systems Vangelis Anatolijs Xanthopoulos,2018 Aqueous Two Phase Systems ATPS have been used since their discovery for the isolation of a large number of different biological materials such as animal and plant cells microorganisms viruses cellular organelles such as chloroplasts mitochondria membrane vesicles and also in the purification of proteins and nucleic acids In Aqueous Two Phase Systems Properties Functions and Advantages the authors begin by discussing the benefits of these systems The following chapter presents the main forms of the purification of lipases from aqueous biphasic systems addressing and discussing the fundamentals for the formation use and optimization of these systems applied in the biotechnological context The authors address the basis of aqueous biphasic systems aqueous two phase systems for enzymatic purification purification of lipases and combined uses of aqueous two phase systems The most important experimental parameters that affect the efficiency of metal ions extraction in aqueous PEG based two phase systems are examined to provide a starting point in the design of a suitable system for the extraction of metal ions Compared to the conventional solvent extraction which uses toxic flammable and volatile organic solvents and can be quite expensive the extraction in aqueous PEG based two phase systems is considered a more environmental friendly and economically viable method Also in this compilation an overview about application of ATPSs in microstructured devices is provided Microstructured devices offer potential benefits due to well defined high specific interfacial areas available for heat and mass transfer These areas increase transfer rate and enhance yield selectivity and process control The application of ATPSs in Micro Total Analysis Systems TAS is described as well *Aqueous Two-Phase Systems* Rajni Hatti-Kaul,2008-02-05 A mixture of two polymers or one polymer and a salt in an aqueous medium separates into two phases this phenomenon is useful in biotechn ogy for product separations Separation of biological molecules and particles in these aqueous two phase systems ATPS was initiated over 40 years ago by P Albertsson and later proved to be of immense utility in biochemical and cell biological research A boost in the application of ATPS was seen when problems of separations in biotechnology processes were encountered Its simplicity biocompatibility and amenability to easy scaleup operations make the use of ATPS very attractive for large scale bioseparations Despite the advantages ATPS enjoys over other separation techniques the application of two phase systems has for a long time been confined to selected labora ries Recent years have however shown a trend in which increasing numbers of researchers employ two phase partitioning techniques in both basic and applied research **Handbook of Bioseparations** Satinder Ahuja,2000-06-23 It is generally recognized that the commercial success of biotechnology products is highly dependent on the successful development and application of high powered separation and purification methods In this practical and authoritative handbook the separation of proteins nucleic acids and oligonucleotides from biological matrices is covered from analytical to process scales Also included in a chapter on the separation of monoclonal antibodies which have found numerous uses as therapeutic and diagnostic agents Analytical

techniques include an interesting montage of chromatographic methods capillary electrophoresis isoelectric focusing and mass spectrometry Among separation and purification methods liquid liquid distribution displacement chromatography expanded bed adsorption membrane chromatography and simulated moving bed chromatography are covered at length Regulatory and economic considerations are addressed as are plant and process equipment and engineering process control A chapter on future developments highlights the application of DNA chip arrays as well as evolving methodologies for a large number of drugs that are under development for treatment of cancer AIDS rheumatoid arthritis and Alzheimer s disease Handbook of Bioseparations serves as an essential reference and guidebook for separation scientists working in the pharmaceutical and biotechnology industries academia and government laboratories Key Features Covers bioseparations of proteins nucleic acids and monoclonal antibodies Encompasses both analytical and process scale methods Elucidates the importance of engineering process control Details selection of plant and process equipment Addresses economic considerations Discusses future developments *Polymer-Based Aqueous-Two Phase Systems* Masami Shibukawa,2025-05-03 This book presents the fundamentals of the separation mechanism of the environmentally benign polymer based aqueous two phase systems ATPS and applications of ATPS to separation and or enrichment of inorganic compounds with batch extraction and chromatographic techniques It first describes the structures of the aqueous polymer phases formed in the ATPS Then the effect of the background electrolyte on the distribution of ionic solutes is discussed A subsequent chapter shows the applications of the ATPS batch extraction to analyses of trace metal ions in environmental samples In the following chapter the author introduces multistep pH peak focusing countercurrent chromatography developed for the separation and enrichment of metal ions with a PEG Na2SO4 ATPS Lastly the author explains that liquid chromatography LC with hydrophilic polymer gel columns using an aqueous solution as the mobile phase is regarded as an efficient separation and enrichment technique based on ATPS and describes multi step pH peak focusing LC and partition ion exclusion chromatographic ion stacking PIEC ion stacking newly developed ATPS chromatographic techniques for separation and enrichment of metal ions and inorganic anions in detail This book helps researchers and engineers design and implement appropriate environmentally benign analytical methods for environmental analyses reagent manufacturers metal refining industry and so on The Science and Application of Aqueous Two-Phase Systems and Liquid-Liquid Phase Separation in Biotechnology and Bioengineering John Paul Frampton,Brendan M. Leung,Anderson Ho Cheung Shum,2020-01-13 The phase separation of incompatible liquids has been a topic of significant importance in chemical and industrial engineering for many years Well understood examples of this phenomenon include the phase separation of oil with water and the phase separation of non polar organic solvents with water Similar behavior is observed when aqueous solutions of two or more incompatible polymers or polymers and salts are mixed In these mixtures referred to as aqueous two phase systems the separated phases are composed mostly of water Aqueous two phase systems have been used extensively for the extraction of high value

biological products from mixtures of biological materials In recent years aqueous two phase systems have also found increased use as materials for streamlining and improving the capabilities of cell and molecular assays and for the design of advanced cell culture systems Similar behavior of biological materials in living systems has also been observed with emerging roles in cell physiology Aqueous Two-Phase Systems Harry Walter,Göte Johansson,1994-04-18 General methodology and apparatus phase diagrams preparation and analysis of two phase systems partioning and affinity partitioning of macromolecules Proteins nucleic acids studies on protein interactionsmolecular structure charge hydrophobicity and conformational chan ges partitioning and affinity partitioning of particulates organellesseparation and subfractionation menbrane separation and subfractionation membrane domain analysis aqueous phase separation in biologicalsystems aqueous two phase systems in large scale process biotechnolo gy proteins downstream processing design of proteins for enhanced extraction other applications of aqueous phases in biotechnology Enzymology Partition of Membranes in Aqueous Two-phase Systems Eva Eriksson,1981 Extraction of lovastatin in aqueous two-phase systems John L. Gainer,1990 Comprehensive Biotechnology ,2019-07-17 Comprehensive Biotechnology Third Edition Six Volume Set unifies in a single source a huge amount of information in this growing field The book covers scientific fundamentals along with engineering considerations and applications in industry agriculture medicine the environment and socio economics including the related government regulatory overviews This new edition builds on the solid basis provided by previous editions incorporating all recent advances in the field since the second edition was published in 2011 Offers researchers a one stop shop for information on the subject of biotechnology Provides in depth treatment of relevant topics from recognized authorities including the contributions of a Nobel laureate Presents the perspective of researchers in different fields such as biochemistry agriculture engineering biomedicine and environmental science Aqueous Two-Phase Systems for Bioprocess Development for the Recovery of Biological Products Marco Rito-Palomares,Jorge Benavides,2017-07-18 This comprehensive and unique text presents a full overview of downstream processing useful for those new to the concept as well as professionals with experience in the area The history and theoretical principles of Aqueous Two Phase Systems ATPS are covered in depth Information on ATPS characterization and application is included and ATPS equilibria and system parameters that have significant effect on partition behavior are studied Aqueous Two Phase Systems for Bioprocess Development for the Recovery of Biological Products addresses specific applications of ATPS for the recovery and partial purification of high molecular weight compounds such as proteins nucleic acids and polysaccharides particulate bioproducts such as cells and organelles and low molecular weight compounds Non conventional strategies involving ATPS such as affinity systems continuous liquid liquid fractionation stages and the recovery from plant extracts are presented Economic analysis of the application of ATPS in comparison to other fractionation techniques particularly liquid chromatography is considered as are opportunity and current trends in the ATPS research area Each chapter utilizes the

contributors experimental expertise in traditional and non conventional ATPS strategies as well as analysis of areas of opportunity and perspectives on the development and future applications of ATPS in both the lab and larger scale operations The result is a thorough and singular overview of ATPS which has not been matched by any other text on the market

Heme, Chlorophyll, and Bilins Alison Smith,Michael Witty,2002 Although researchers can profitably investigate heme chlorophyll and related tetrapyrroles in a wide range of academic and medical research programs the handling and manipulation of these delicate compounds requires considerable skill and cross boundary knowledge In Heme Chlorophyll and Bilins Methods and Protocols an interdisciplinary panel of hands on investigators overcomes these limitations by describing in detail how to work successfully with chlorophyll heme and bilins in biological medical chemical and biochemical research Each method is presented by a researcher who actually uses it on a daily basis and includes step by step instructions and pertinent tricks of the trade that often make the difference between laboratory success and failure Topics range from methods for the analysis of tetrapyrroles heme and hemoproteins to the biosynthesis and the analysis of chlorophyll and bilins Timely and highly practical Heme Chlorophyll and Bilins Methods and Protocols is a gold standard collection of readily reproducible techniques suitable for a wide range of researchers whether it be a clinician studying photodynamic therapy an ecologist studying the chlorophyll composition of leaves in a tropical forest or a cell biologist investigating the function of specific hemoproteins **Highly Selective Separations in Biotechnology** G. Street,2012-12-06 Success in meeting the challenge to produce the commercial products anticipated by the exploitation of biological processes depends upon provid ing effective separation protocols Effectiveness can be measured in terms of selectivity purity resolution and validatory success The major processing problems are associated with either the selective recovery of molecules which are present in low concentrations from complex mixtures or the selective removal of contaminants from the desired molecule Central to the evolution of processes satisfying this demand are the regulatory requirements being imposed by governments on the purity of a product especially in the health care market Synthetic organic chemists are increasingly finding it advantageous to conduct one or more steps using either enzymic biotransformations where molecules with a single and consistent stereochemistry or chirality are required The underlying princi ples behind the methods techniques and processes currently being used and developed commercially rely upon the biospecific nature and properties of the desired molecule When these factors are married to the more traditional techniques of precipitation chromatography liquid liquid extraction and membrane processes powerful tools emerge allowing highly selective separations to be designed The logical extension of these combinations is to apply genetic engineering techniques to influence the separations at a more fundamental and structural level by modifying the target protein at source during its synthesis to facilitate its separation in a given selective manner leading to the distinct possibility of producing designer separation programmes **Aqueous Two-Phase Systems** Rajni Hatti-Kaul,2000 Rajni Hatti Kaul and her expert coauthors

combine theory methodology and applications in a practical collection of easily reproducible protocols for bioseparations in aqueous two phase systems ATPS The protocols range from established methods to cutting edge techniques with potential biotechnological applications Among the methods detailed are those for ATPS preparation and characterization for partitioning applied to soluble molecules and particulates including whole cells membranes and organelles and for the isolation and purification of proteins including a glimpse of large scale handling of two phase separations Practical and informative with its detailed guidelines allowing researchers to adapt specific systems to their own separation needs Aqueous Two Phase Systems Methods and Protocols demonstrates the scope and utility of two phase aqueous systems in both basic and applied research New Generation Green Solvents for Separation and Preconcentration of Organic and Inorganic Species Mustafa Soylak,Erkan Yilmaz,2020-04-07 New Generation Green Solvents for Separation and Preconcentration of Organic and Inorganic Species is designed to help researchers and students understand the production and application of new generation green solvents in separation and preconcentration based analytical methods Beginning with the historical background and milestones in the development of analytical instrumentation the book goes on to give a detailed overview of the most up to date uses of green solvents in sample preparation Using a wealth of examples it compares old and new extraction procedures and explores the many applications of new generation green solvents Practical easy to follow experiments are used to illustrate the key concepts This practical guide helps to promote the use of safer more sustainable solvents in analytical chemistry and beyond for environmental scientists researchers in pharmaceutical and biotech industries and students in analytical chemistry Covers the basic analytical theory essential for understanding extraction and microextraction based separation and preconcentration methods Explains combination use of new generation solvents with various detection systems including UV VIS ICP MS HPLC LC MS GC MS and LC MS MS Emphasizes trace chemical component separation preconcentration and analysis **Biopharmaceutical Processing** Gunter Jagschies,Eva Lindskog,Karol Lacki,Parrish M. Galliher,2018-01-18 Biopharmaceutical Processing Development Design and Implementation of Manufacturing Processes covers bioprocessing from cell line development to bulk drug substances The methods and strategies described are essential learning for every scientist engineer or manager in the biopharmaceutical and vaccines industry The integrity of the bioprocess ultimately determines the quality of the product in the biotherapeutics arena and this book covers every stage including all technologies related to downstream purification and upstream processing fields Economic considerations are included throughout with recommendations for lowering costs and improving efficiencies Designed for quick reference and easy accessibility of facts calculations and guidelines this book is an essential tool for industrial scientists and managers in the biopharmaceutical industry Offers a comprehensive go to reference for daily work decisions Covers both upstream and downstream processes Includes case studies that emphasize financial outcomes Presents summaries decision grids graphs and overviews for quick reference **Food Waste Recovery** Charis M.

Galanakis,2020-12-01 Food Waste Recovery Processing Technologies Industrial Techniques and Applications Second Edition provides information on safe and economical strategies for the recapture of value compounds from food wastes while also exploring their re utilization in fortifying foods and as ingredients in commercial products Sections discuss the exploration of management options different sources the Universal Recovery Strategy conventional and emerging technologies and commercialization issues that target applications of recovered compounds in the food and cosmetics industries This book is a valuable resource for food scientists technologists engineers chemists product developers researchers academics and professionals working in the food industry Covers food waste management within the food industry by developing recovery strategies Provides coverage of processing technologies and industrial techniques for the recovery of valuable compounds from food processing by products Explores the different applications of compounds recovered from food processing using three approaches targeting by products targeting ingredients and targeting bioactive applications **Studies on Rat and Human Lymphocytes Separated in Aqueous Two-phase Systems** Per Malmström,1980 **Modeling of Phase Separation in Aqueous Two-phase Systems Containing Salts** Paresh Umakant Kenkare,1995 Aqueous Two-Phase Partitioning Boris Y. Zaslavsky,1994-11-15 Covers the fundamental principles of solute partitioning in aqueous two phase systems explains their important practical features and furnishes methods of characterization The information provided by the partition behaviour of a solute in an aqueous two phase system is examined **Partitioning of Biomolecules in Thermo-separating Polymer-water Two-phase Systems** Hans-Olof Johansson,1996

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Aqueous Two Phase Systems Introduction

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