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Protein Based Surfactants Synthesis Physicochemical

Protein-Based Surfactants: Synthesis: Physicochemical Properties, and Applications (SURFACTANT SCIENCE SERIES) 1st Edition by Jiding Xia (Author) ISBN-13: 978-0824700041

Protein-Based Surfactants: Synthesis: Physicochemical ...

Description "Describes preparation

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techniques of protein-based surfactants (PBS) in the laboratory by a variety of chemical and enzymatic means, production by using different types of amino acids, and marketplace applications of PBS in medical and personal care products, detergents, cosmetics, antimicrobial agents, and foods."

Protein-Based Surfactants: Synthesis: Physicochemical ...

"Describes preparation techniques of protein-based surfactants (PBS) in the laboratory by a variety of chemical and enzymatic means, production by using different types of amino acids, and marketplace applications of PBS in medical and personal care products, detergents, cosmetics, antimicrobial agents, and foods."

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Protein-based surfactants : synthesis, physicochemical properties, and

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applications. [Ifendu A Nnanna; Jiding Xia;] -- "This book describes preparation techniques of protein-based surfactants (PBS) in the laboratory by a variety of chemical and enzymatic means, production by using different types of amino acids, and ...

Protein-based surfactants : synthesis, physicochemical ...

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Protein Based Surfactants Synthesis Physicochemical ...

The book describes the synthesis of protein-based surfactants, their physicochemical properties, potential applications, and significant developments. Numerous research

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projects have been carried out with this class of surfactants, especially in recent years, which is reflected in the great number of publications.

Book Review: Protein-Based Surfactants. Synthesis ...

Protein-Based Surfactants. DOI link for Protein-Based Surfactants. Protein-Based Surfactants book. Synthesis: Physicochemical Properties, and Applications ... Protein-Based Surfactants book. Synthesis: Physicochemical Properties, and Applications. By Jiding Xia. Edition 1st Edition . First Published 2001 . eBook Published 6 June 2001 . Pub ...

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Common amino acids used for their synthesis are glutamic acid, serine, proline, aspartic acid, glucine, arginine, alanine, leucine and protein hydrolysates. Surfactants of this subclass can be prepared chemically,

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enzymatically and chemoenzymatically; however, chemical synthesis has been found more economically feasible for their production.

Synthesis, chemistry, physicochemical properties and ...

Amino acid based surfactants have been widely used as alternative to classical surfactants due to their interesting physicochemical properties, biological activities, biodegradability and low toxicity. The study of the physicochemical properties of surfactants such as critical micelle concentration (CMC) and Krafft temperature is an important aspect in determining their use in detergents or ...

[PDF] Synthesis and physicochemical properties of non ...

Amino acid-based surfactants are a class of surfactants derived from a hydrophobe source coupled with simple amino acids, mixed amino acids from

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synthesis or from protein hydrolysates, and as such can be derived solely from renewable resources.

Synthesis, chemistry, physicochemical properties and ...

The synthesis of a homologous series of alanine-based surfactants, namely sodium salts of n-alkanesulfonamido-2-propanoic acids in which n-alkane is n-dodecane, n-tetradecane, n-hexadecane, and n-octadecane having the formula $\text{RSO}_2\text{NHCH}(\text{CH}_3)\text{COO}-\text{Na}^+$, is described. The starting materials used were a mixture of secondary positional isomers of n-alkanesulfonyl chlorides obtained by ...

Synthesis and Physicochemical Properties of Alanine-Based ...

The synthesis of a homologous series of alanine-based surfactants, namely sodium salts of n-alkanesulfonamido-2-propanoic acids in which n-alkane is n-dodecane, n-

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tetradecane, n-hexadecane, and ...

Synthesis and Physicochemical Properties of Alanine-Based ...

The application of lipases to the synthesis of amino acid-based surfactants was investigated. Low yields (2-9%) were obtained in the acylation of free amino acids, such as L-serine and L-lysine, as well as their ethyl esters and amides with fatty acids, owing in part to low miscibility of the reactants. When the N-carbobenzyloxy (Cbz)-L-amino acids were used in an effort to ...

Chemo-enzymatic synthesis of amino acid-based surfactants ...

Oleic acid-based amphiphilic surfactants were synthesized using three amino acids namely isoleucine (Ile), phenylalanine (Phe), and proline (Pro) containing aliphatic, aromatic and alicyclic moiety as polar head group. N-Oleoyl amino acids were prepared using Schotten-Baumann reaction by reacting sodium salt of amino acid with oleoyl

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chloride.

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Synthesis, surface and micellar properties of sodium N ...

The synthesized aminoacid based surfactants are in their acidic form, having free carboxylic groups. Since the surface activity of surfactants is ensured by the presence of both hydrophilic and hydrophobic parts, the aminoacid based surfactants were neutralized with a NaOH solution in order to provide the affinity for water.

ASPECTS REGARDING THE SYNTHESIS AND SURFACE PROPERTIES OF ...

This work presents a synthesis method for new surfactants based on lactose. The compounds obtained belong to the homologous series of O- β -D-Galactopyranosyl-(1 \rightarrow 4)-N-alkyl-(3-sulfopropyl)-D-glucosamine hydrochloride, containing 12 and 14 carbon atoms in the alkyl chain, and they may serve as an example of cationic surfactants. The

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newly synthesized compounds exhibit good surface properties ...

Synthesis, Surface and Antimicrobial Activity of New ...

Protein Based Surfactants: Synthesis, Physicochemical Properties and Applications. ... The synthesis and basic physico-chemical properties have also been included. View. Show abstract.

Synthesis and physicochemical properties of non-ionic and ...

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2. Physicochemical Properties of Polyampholyte Cryogels. As seen in Table 1, polyampholyte cryogels can be comprised of primary, secondary and tertiary amine, or quaternary ammonium groups on the one hand, and carboxylic, sulfonic acid or carboxylate, sulfonate moieties on the other. Polyampholyte cryogels, analogous to linear polyampholytes [], can be defined as pH-dependent “annealed ...

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