

## Protein Based Surfactants Synthesis Physicochemical Properties And Applications Surfactant Science

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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 ...

Book Description "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 ...

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

### Synthesis, chemistry, physicochemical properties and ...

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production by using different types of amino acids, and ...

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Book Review: Protein-Based Surfactants. Synthesis, Physicochemical Properties, and Applications. Edited by Ifendu A. Nnanna and Jiding Xia. Wolfgang von Rybinski. Henkel KGaA Düsseldorf (Germany) Search for more papers by this author. Wolfgang von Rybinski.

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Amino acids/protein based surfactants are esuriently ecological, biocompatible and renewable molecules . N-Acyl amino acids also referred as lipoamino acids are a special kind of surfactant based on amino acids . Studies on lipoamino acids have been of great interest in the last few years because of their high degree of biocompatibility and low toxicity which makes them favorable for application in biology, especially as a vesicle or bilayer.

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

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## **Protein Based Surfactants Synthesis Physicochemical ...**

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 ...

## **Synthesis and Physicochemical Properties of Alanine-Based ...**

New perfluoroalkyl telomeric non-ionic surfactants: synthesis, physicochemical and biological properties ... Fluorinated and hemifluorinated surfactants as alternatives to detergents for membrane protein cell-free synthesis, Biochemical ... André A. Pavia, Alkyl and perfluoroalkyl glycolipid-

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based supramolecular assemblies, Colloids and ...

## **New perfluoroalkyl telomeric non-ionic surfactants ...**

Among the plethora of amino acid-based surfactants that can be found in the literature (Gerova et al. 2008;Pérez et al. 2009;Pang and Chu 2010;Tripathy et al. 2018), the arginine-based ...

## **Synthesis, Properties, and Applications of Amino Acids ...**

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  $RSO_2NHCH(CH_3)COO^-Na^+$ , 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 ...**

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→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 newly synthesized compounds exhibit good surface properties ...

## **Synthesis, Surface and Antimicrobial Activity of New ...**

The book describes the synthesis of protein-based surfactants, their physicochemical properties, potential applications, and significant developments. Numerous research projects have been carried out with this class of surfactants, especially in recent years, which is reflected in the great number of publications.

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