

Spectrophotometric Determination Of Alendronate Sodium By

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A sensitive, simple, precise and low-cost spectrophotometric method for alendronate sodium (ALD) determination has been proposed. The procedure is based on the reaction of the primary amino group of alendronate sodium with ninhydrin reagent in a boiling water bath in presence of pyridine to yield a bluish-violet product measured at 565 nm.

Spectrophotometric Determination of Alendronate Sodium in—

RESULTS: Three simple and sensitive spectrophotometric methods are described for the determination of ALD. Method I is based on the reaction of ALD with NBD-Cl. Method II involved heat-catalyzed derivatization of ALD with DNFB, while, Method III is based on micellar-catalyzed reaction of the studied drug with DNFB at room temperature.

Validated spectrophotometric methods for determination of—

The optimum conditions for this reaction were ascertained and a spectrophotometric method was developed for the determination of alendronate in the concentration range 8.1–162.5 $\mu\text{g ml}^{-1}$, the detection limit being 2 $\mu\text{g ml}^{-1}$. The method was validated for the direct determination of alendronate in tablet dosage formulations.

Spectrophotometric determination of alendronate in—

Two methods (spectrophotometric and HPLC) have been developed and validated for the analysis of alendronate sodium in tablet dosage form. Both methods depend on the ability of alendronate sodium to react with o-phthalaldehyde (OPA) at basic pH to produce a light-absorbing derivative. The derivative was found to possess absorption maximum at 330 nm where neither the derivatizing agent nor the analyte had any absorption.

Spectroscopic and HPLC methods for the determination of—

Alendronate (ALD) is a member of the bisphosphonate family which is used for the treatment of osteoporosis, bone metastasis, Paget's disease, hypocalcaemia associated with malignancy and other conditions that feature bone fragility. ALD is a non-chromophoric compound so its determination by conventional spectrophotometric methods is not possible.

Validated spectrophotometric methods for determination of—

Published 2005 183 The Determination of Alendronate Sodium in Microparticulate Systems by High Performance Liquid Chromatography Summary : Alendronate sodium (AS) is an aminobisphosphonate that inhibits especially the osteoclast-related bone resorption.

PDF The Determination of Alendronate Sodium in—

Two simple, fast, and accurate spectrophotometric methods for the determination of alendronate sodium are described. The methods are based on charge-transfer complex formation of the drug with two π -electron acceptors 7,7,7,8-tetracyanoquinodimethane (TCNQ) and 2,3-dichloro-5,6-dicyano-1,4-benzoquinone (DDQ) in acetonitrile and methanol medium.

Application of Certain π -Acceptors for the—

Two simple, fast, and accurate spectrophotometric methods for the determination of alendronate sodium are described. The methods are based on charge-transfer complex formation of the drug with two π -electron acceptors 7,7,7,8-tetracyanoquinodimethane (TCNQ) and 2,3-dichloro-5,6-dicyano-1,4-benzoquinone (DDQ) in acetonitrile and methanol medium. The methods are followed spectrophotometrically by measuring the maximum absorbance at 840 nm and 465 nm, respectively.

Application of Certain π -Acceptors for the—

Spectrophotometric Determination. Solved: consider the spectrophotometric determination of i chegg com equilibrium constant a reaction doscity file:spectrophotometric acidity an acidic basic indicator jpg wikimedia commons alendronate sodium by using 1 2 naphthoquinone 4 sulphonate semantic scholar icon

Spectrophotometric Determination—Free Photos

Validated spectrophotometric methods for determination of Alendronate sodium in tablets through nucleophilic aromatic substitution reactions. (PMID:22472190 PMID:PMC3379942) PMID:22472190 PMID:PMC3379942

Validated spectrophotometric methods for determination of—

Determination Of Alendronate Sodium By their computer, spectrophotometric determination of alendronate sodium by is available in our digital library an online access to it is set as public so you can download it instantly. Our digital library saves in multiple locations, allowing you to get the most Page 3/11

Spectrophotometric Determination Of Alendronate Sodium By

Sodium p-aminosalicylate is an orphan drug used in patients affected with Multidrug-resistant Tuberculosis. Two methods, high-performance liquid chromatographic and ultraviolet spectrophotometric for the quantitative determination of sodium p-aminosalicylate and its degradation product m-aminophenol ...

Validation of Ultraviolet-visible and High-performance—

determine alendronate sodium in pharmaceutical tablets and an HPLC method with fluorescence detection for its analysis in urine.6 They reported the LOQ of 14 and 0.3 μgml^{-1} for the spectrophotometric and HPLC fluorometric procedures, respectively. To the best of our knowledge, there is no report about the

A fast and simple spectrofluorometric method for the—

Two simple, fast, and accurate spectrophotometric methods for the determination of alendronate sodium are described. The methods are based on charge-transfer complex formation of the drug with two...

(PDF) Application of Certain π -Acceptors for the—

spectrophotometric methods (A, B, C and D) have been developed for the estimation of sulfadoxine in pharmaceutical preparations. They are based on the diazotization of sulfadoxine with sodium nitrite and hydrochloric acid followed by coupling with N-(1-naphthyl) ethylenediamine dihydrochloride

Spectrophotometric Estimation of Sulfadoxine in—

A new spectrophotometric method is developed to determine sodium dodecylbenzene sulphonate (SDBS) in natural water without the use of organic hydrophobic solvents and two-phase extraction. In BR buffer solution (pH 2.03), SDBS replaces sodium diphenyl diazo-bis- γ -naphthylamine-4-sulphonate (Congo red, CR) in CR-cetylpyridinium chloride (CPC) system.

PDF Spectrophotometric determination of sodium—

methods available for the determination of alendronate sodium. These methods include spectrophotometric [3– 6], chromatographic [7–13], capillary electrophoresis [14], inductively coupled plasma [15], and voltammetric [16]. These previously reported spectrophotometric methods in the literature suffer from disadvantages like extraction,

Application of Certain π -Acceptors for—

Key Words: Spectrophotometric determination, 3-Methyl-2-benzothiazolione hydrazone, Folin-ciocalteu Phenol's reagent, Famiciclovir, Famiciclovir (FCV) is an antiviral drug and chemically known as 1,3-propanediol, 2-[2-(2-amino-9H-purin-9y)ethyl]diacetate (ester). Literature survey reveals that no visible methods are reported, however, an UV 1 ...

Spectrophotometric Determination of Famiciclovir in Bulk—

Ani Latchinian Chem 101 Lab T/TH 1:40-4:30 Pre-Lab: Spectrophotometric Determination Of an Unknown Concentration of Iron Safety: Goggles must be worn and gloves because of sulfuric acid H2SO4 Preparation of Diluted Standard Iron Solution:-Obtain approximately 25ml of standard iron solution (containing about 0.5mg) in a clean sry 50 ml beaker-Using a graduated 10 ml mohr pipette transfer 2 ml ...

Volumes in this widely revered series present comprehensive reviews of drug substances and additional materials, with critical review chapters that summarize information related to the characterization of drug substances and excipients. This organizational structure meets the needs of the pharmaceutical community and allows for the development of a timely vehicle for publishing review materials on this topic. The scope of the Profiles series encompasses review articles and database compilations that fall within one of the following six broad categories: Physical profiles of drug substances and excipients; Analytical profiles of drug substances and excipients; Drug metabolism and pharmacokinetic profiles of drug substances and excipients; Methodology related to the characterization of drug substances and excipients; Methods of chemical synthesis; and Reviews of the uses and applications for individual drug substances, classes of drug substances, or excipients. Contributions from leading authorities Inform and updates on all the latest developments in the field

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This book presents the applications of ion-exchange materials in the biomedical industries. It includes topics related to the application of ion exchange chromatography in determination, extraction and separation of various compounds such as amino acids, morphine, antibiotics, nucleotides, penicillin and many more. This title is a highly valuable source of knowledge on ion-exchange materials and their applications suitable for postgraduate students and researchers but also to industrial R&D specialists in chemistry, chemical, and biochemical technology. Additionally, this book will provide an in-depth knowledge of ion-exchange column and operations suitable for engineers and industrialists.

The book presents developments and applications of these methods, such as NMR, mass, and others, including their applications in pharmaceutical and biomedical analyses. The book is divided into two sections. The first section covers spectroscopic methods, their applications, and their significance as characterization tools; the second section is dedicated to the applications of spectrophotometric methods in pharmaceutical and biomedical analyses. This book would be useful for students, scholars, and scientists engaged in synthesis, analyses, and applications of materials/polymers.

This document provides the comprehensive list of Chinese Industry Standards - Category: HG; HG/T; HGT.

This book is intended as a practical manual for chemists, biologists and others whose work requires the use of pH or metal-ion buffers. Much information on buffers is scattered throughout the literature and it has been our endeavour to select data and instructions likely to be helpful in the choice of suitable buffer substances and for the preparation of appropriate solutions. For details of pH measurement and the preparation of standard acid and alkali solutions the reader is referred to a companion volume, A. Albert and E. P. Serjeant's The Determination of Ionization Constants (1971). Although the aims of the book are essentially practical, it also deals in some detail with those theoretical aspects considered most helpful to an understanding of buffer applications. We have cast our net widely to include pH buffers for particular purposes and for measurements in non-aqueous and mixed solvent systems. In recent years there has been a significant expansion in the range of available buffers, particularly for biological studies, largely in consequence of the development of many zwitterionic buffers by Good et al. (1966). These are described in Chapter 3.

This revision brings the reader completely up to date on the evolving methods associated with increasingly more complex sample types analyzed using high-performance liquid chromatography, or HPLC. The book also incorporates updated discussions of many of the fundamental components of HPLC systems and practical issues associated with the use of this analytical method. This edition includes new or expanded treatments of sample preparation, computer assisted method development, as well as biochemical samples, and chiral separations.