

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 µg ml⁻¹, the detection limit being 2 µg 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 docesity file:spectrophotometric acidity an acidic basic indicator jpg wikimedia commons alendronate sodium by using 1 2 naphthoquinone 4 sulphonate semantic scholar iron

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 ...

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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- π -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-benzothiazolinone hydrazone, Folin-ciocalteu Phenol's reagent, Famciclovir. Famciclovir (FCV) is an antiviral drug and chemically known as 1,3-propanediol, 2-[2-(2-amino-9H-purin-9yl)ethyl]diacetate (ester). Literature survey reveals that no visible methods are reported, however, an UV 1 ...

Spectrophotometric Determination of Famciclovir in Bulk ...

Ani Latchinian Chem 101 Lab T/TH 1:40-4:30 PreLab: 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 ...