

Spectrophotometric Determination Of Alendronate Sodium By

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Spectrophotometric Determination Of Alendronate Sodium

Validated spectrophotometric methods for determination of Alendronate sodium in tablets through nucleophilic aromatic substitution reactions. BACKGROUND: 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.

Validated spectrophotometric methods for determination of ...

Spectrophotometric Determination of Alendronate Sodium in Bulk Drug and in Pharmaceutical Formulation. INTRODUCTION. Alendronate sodium (ALD) is the sodium salt of 4-amino- 1-hydr oxy-1,1-biphosphonic acid tr ihydr ate . It is an aminobiphos- phonate drug with potential utility in treatment of diseases characterized by abnormal bone turnover, such as metastatic bone disease, hypercalcemia of malignancy, Paget's disease, periodontal disease and osteopor osis.

Spectrophotometric Determination of Alendronate Sodium in ...

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.

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Validated spectrophotometric methods for determination of ...

The proposed spectrophotometric methods provided sensitive, specific and inexpensive analytical procedures for determination of the non-chromophoric drug alendronate either per se or in its tablet dosage forms without interference from common excipients.

Validated spectrophotometric methods for determination of ...

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 ...

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Application of Certain π -Acceptors for the ...

Spectrophotometric Determination of Alendronate Sodium by using Sodium-1 , 2-Naphthoquinone-4-Sulphonate

FORMULATION DEVELOPMENT & EVALUATION OF EFFERVESCENT ...

Spectrophotometric Determination Of Alendronate Sodium 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

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the Spectrophotometric Determination of Alendronate Sodium ... Three simple, accurate and sensitive spectrophotometric methods are developed for the determination of some new drugs for the treatment of osteoporosis: risedronate sodium (I), alendronate sodium...

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spectrophotometric analysis of alendronate sodium in tablets. The analysis was based on the reaction of ninhydrin with the primary amino group in alendronate in the presence of 0.01 M sodium...

(PDF) Effect of Manganese Ions (Mn 2+) on Ninhydrin Colour ...

Convenient and sensitive colorimetric determination of alendronate sodium with Ce 4+-triggered oxidation of TMB J. Sun, R. Wang, M. Xia, S. Zhu and X. Zhao, New J. Chem., 2020, 44, 12962 DOI: 10.1039/D0NJ02816A If you are not the ...

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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 literatures suffer from disadvantages like extraction,