

Spectrophotometric Determination Of Alendronate Sodium By

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Application of Certain -Acceptors for the ...

In this study UV-spectrophotometric method based on complexation of bisphosphonates with Cu (II) ions (17) is applied for determination of three bisphosphonate drugs in pharmaceutical preparations. EXPERIMENTAL Chemicals and Reagents Pure substances: alendronate (4-amino-1-hydroxybutane-1,1-bisphosphonic acid) sodium salt

Validated spectrophotometric methods for determination of ...

sibility of determination of drugs by spectrophotometric methods [17, 18]. In order to develop new simple, fast, and extraction-free spectrophotometric methods for the determination of alendronate sodium in pure and pharmaceutical dosage forms, we investigated quantitative reactions of alendronate sodium with organic -acceptors like TCNQ and ...

APPLICATION OF UV-DERIVATIVE SPECTROPHOTOMETRY FOR ...

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.

Spectrophotometric Determination of Alendronate Sodium in ...

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Spectrophotometric determination of alendronate in ...

Sibel fi AMDANCIO / LU*, Sema ç ALI fi * ° , Sedef KIR**, Murat fi UMNU* 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.

Spectrophotometric Determination of Alendronate Sodium in ...

that feature bone fragility. ALD is a non-chromophoric compound so its determination by conventional spectrophotometric methods is not possible. So two derivatization reactions were proposed for determination of ALD through the reaction with 4-chloro-7-nitrobenzo-2-oxa-1,3-diazole (NBD-Cl) and 2,4-dinitrofluorobenzene

Spectrophotometric determination of alendronate in ...

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 pteridine to yield a bluish-violet product measured at 565 nm.

Application of Certain -Acceptors for ...

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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 Sodium Prodrone 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-acceptors 7,7,7,8-tetracyanoquinodimethane (TCNQ) and 2,3-dichloro-5,6-dicyano-1,4-benzoquinone (DDQ) in acetonitrile and methanol medium.

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...

Spectrophotometric Determination of Some Drugs for ...

A spectrophotometric method for determining sodium prodrone in tablets by measuring the absorption at 237 ± 2 nm of a Cu(II)—prodrone complex in acetate buffer was developed and validated.

RESEARCH ARTICLE Open Access Validated spectrophotometric ...

the Spectrophotometric Determination of Alendronate Sodium in Pharmaceutical Bulk and Dosage Forms (2011)

Validated spectrophotometric methods for determination of ...

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.

International Journal of Analytical Chemistry - Hindawi

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.

RESEARCH ARTICLE The Determination of Alendronate Sodium ...

Subsequently, a spectrophotometric method was developed for the determination of alendronate in the concentration range 3.25-325 μ g/mL, the recovery value was $97\% \pm 3$ and the limit of detection was 1 μ g/mL. The method was validated for the direct determination of alendronate in tablet dosage formulation.

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 to yield a bluish-violet product measured at 565 nm.

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