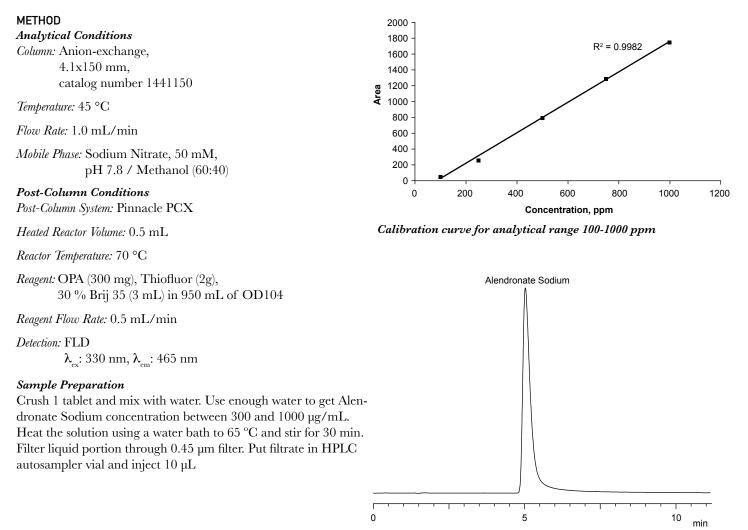


ANALYSIS OF ALENDRONIC ACID IN PHARMACEUTICAL FORMULATIONS

Alendronic acid or Alendronate Sodium is a bisphosphonate drug that inhibits osteoclast-mediated bone resorption. Biphosphates work by binding to the bone and preventing calcium from being removed by osteoclasts. This drug is used to prevent and treat osteoporosis as well as several other bone diseases. Alendronate Sodium is sold as tablets or solutions, alone or in combination with Vitamin D.

Since Alendronic acid has no chromophore, post-column derivatization is employed to produce a fluorescence derivative.

This abstract describes selective and sensitive analytical method for the analysis of Alendronic Acid in pharmaceutical tablets. Simple sample preparation and fast analysis time allow for using this method in high throughput environments.



Chromatogram of Fosavance® tablet (Alendronate sodium 70 mg, Vitamin D 2800 IU)