

Title (en)

A COMPOSITION AND METHOD FOR PREPARING AMINO ACID CHELATES FREE OF INTERFERING IONS

Title (de)

ZUSAMMENSETZUNG UND VERFAHREN ZUR HERSTELLUNG VON AMINOSÄURECHELATEN, DIE FREI VON STÖRENDE IONEN SIND

Title (fr)

COMPOSITION ET PROCEDE POUR PREPARER DES CHELATES D'ACIDE AMINE EXEMPTS D'IONS INTERFERANTS

Publication

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Application

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Abstract (en)

[origin: WO0230948A2] The present invention relates to compositions and methods of preparing amino chelates that are free of interfering ions, and optionally, electrically neutral. In one embodiment, the composition is prepared by reacting in an aqueous solution a calcium oxide and/or hydroxide, an amino acid, and a soluble metal sulfate salt at a ratio sufficient to allow substantially all of the ions present in solution to react forming a metal amino acid chelate and an essentially inert calcium sulfate, and wherein the metal amino acid chelate has a ligand to metal molar ratio from 2:1 to 3:1. Alternatively, the composition can be prepared by reacting in an aqueous solution, a calcium oxide and/or hydroxide, an amino acid, and a soluble metal sulfate salt at a ratio sufficient to allow substantially all of the ions present in solution to react forming a positively charged metal amino acid chelate having a hydroxide counter-ion, and a calcium sulfate, and wherein the metal amino acid chelate has a ligand to metal molar ratio from 1:1 to 2:1.

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