

The X-Ray Structure of the Pyochelin Fe³⁺ Complex

Karin Schlegel, Johann Lex, Kambiz Taraz, and Herbert Budzikiewicz^{*,§}

Institut für Organische Chemie, Universität zu Köln, Greinstr. 4, D-50939 Köln, Germany.
Fax: +49-221-470-5057. E-mail: aco88@uni-koeln.de

* Author for correspondence and reprint requests

Z. Naturforsch. **61c**, 263–266 (2006); received January 11, 2006

By X-ray structure analysis it could be shown that from the solution equilibrium of pyochelin I and II, differing in the stereochemistry at C-2'' (**1a** and **1b**), crystals of the Fe³⁺ complex of the stereoisomer **1a** are formed with a 1:1 metal-to-ligand ratio. Ligand sites are the carboxylate and the phenolate anions and the two nitrogen atoms. Two equivalent ferri-pyochelin moieties are held together by a hydroxy and an acetate unit which satisfy the remaining two coordination sites of Fe³⁺.

Key words: Pyochelin, X-Ray Structure, *Pseudomonas aeruginosa*