Pyoverdins with a Lys ε-Amino Link in the Peptide Chain?§

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For a pyoverdin isolated from Pseudomonas putida it could be shown that Lys is incorporated into the peptide chain by its ε-amino group in contrast to the normally observed connection by the α-amino group. The structure elucidation of the pyoverdin by chemical degradation and spectroscopic methods is reported and the criteria for the distinction between α- and ε-connection in the case of Lys are discussed.