ABSTRACT

A simple and selective method was established for spectrophotometric determination of iron (II). Pyridine 2, 4, 6-tricarboxylic acid acts as an organic ligand molecule towards iron (II) to form an intense red-purple Fe-PTA complex with first order derivative value of 495.0 nm. Beer's law was obeyed for iron (II) concentrations from 3.0- 425.0 µg x 10 ml⁻¹. The molar absorptivity was found in the range of 0.186 x 10⁴ L mol-1 cm-1. The method has been successfully applied for the determination of iron (II) in

Key words: iron (II), pyridine 2, 4, 6-tricarboxylic acid, molar absorptivity, Portland cement and pharmaceutical samples.

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