

ABSTRACT

Simultaneous Validation and Determination of Isoniazid and Pyridoxine HCl in Syrup by UV Spectrophotometric Method

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The problem of drug resistance in the treatment of TB, especially MDR (multi-drug-resistant) and XDR (extensively drug-resistant) becomes an important public health problem and should be addressed. Simultaneous validation of assay of Isoniazid and Pyridoxine HCl was conducted with a wavelength of 262.0 nm and 285.5 nm. In the assay Isoniazid and Pyridoxine HCl in syrup dosage form was obtained the percent recovery of Isoniazid 95.72% and Pyridoxine HCl 106.49%. It is in compliance with the requirements listed in the fifth edition of Indonesian Pharmacopoeia, are Isoniazid contains not less than 90.0% and not more than 110.0% of the amount listed on the label, as well as Pyridoxine HCl containing not less than 95.0 % not more than 115.0% from the amount listed on the label. The method is recommended for routine analysis since it is rapid, simple, accurate and specific.

Keyword: Isoniazid, Pyridoxine HCl, Simultaneous, Spectrophotometric Method.