

# SPECTROPHOTOMETRIC ANALYTICAL METHOD DEVELOPMENT AND VALIDATION FOR SIMULTANEOUS ESTIMATION OF A LAMIVUDINE AND STAVUDINE IN SOLID DOSAGE FORM

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**Abstract:**

A simple, rapid and UV-Visible Spectrometric method development and Validation for the simultaneous estimation of lamivudine and stavudine in tablet dosage form. The Simultaneous estimation was performed on Shimadzu 1800 double beam UV - Visible spectrophotometer, methanol used as Solvent. Simultaneous equation method was carried out at 271.50 nm ( $\lambda_{\max}$  of Lamivudine) and 263.90 nm ( $\lambda_{\max}$  of Stavudine). Linearity was observed in range of 3-30  $\mu\text{g/ml}$  for Lamivudine and Stavudine respectively. The correlation coefficient value was found to be 0.9995 & 0.9993 for both drug. Method was statistically validated as per ICH guidelines and can be successively applied for analysis for tablets formulation.. The proposed method was also found to be accurate, precise and robust. The method could be applied to routine quality control of pharmaceutical formulations containing lamivudine and stavudine.

**Keywords:** Lamivudine, Stavudine, simultaneous equation method.

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