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## Analytical method development and validation of simultaneous estimation for amlodipine besylate and indapamide in combined dosage form

Jinesh Kumar Patel M.G. Science Institute, India

Till date no analytical method has been developed for estimation of Amlodipine Besylate (AML) and Indapamide (IND) simultaneously in combined dosage form. Thus, the objective of present work is to develop and validate simple, precise, accurate UV-Spectrophotometric methods and spectrofluorometric method for simultaneous estimation of AML and IND in their combined dosage form. For absorption correction method Linearity of AML and IND was found in 14-38 µg/ml and 4-12 µg/ml respectively, while for dual wavelength method Linearity of AML and IND was found 14-44 µg/ml and 4-12 µg/ml respectively. In Spectrofluorometric method Linearity of AML and IND was found 0.2-3.4 µg/ml and 0.5-6.5 µg/ml, respectively. Precision for all mentioned methods was found to be less than 2% and accuracy was found to between 98-102%. All methods were found to be simple, precise and accurate. All methods can be successfully used for routine simultaneous analysis of AML and IND in pure and combined dosage forms.

## **Biography**

Jinesh Kumar Patel is an Assistant Professor in Department of Biochemistry, M.G. Science Institute, Gujarat, India with five years of teaching and research experience. He has completed his Bachelor's, Master's from the Gujarat University and PhD from HNGU. He has made his significant contribution in the field of biochemistry and has published 5 papers in reputed journal.

pateljineshkumar@yahoo.in

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