## conferenceseries.com

# Medical **Events 2022**

March 28, 2022 | Webinar

American Journal of Pharmacology and Pharmacotherapeutics | Volume: 09

### Spectrophotometric Determination of Doxazosin Mesylate in Bulk and in Tablet Formulations via **Schiff's Base Reaction**

#### Zahid Ali Zounr

University of Medical & Health Sciences, Pakistan

A simple, sensitive and accurate spectrophotometric method for the determination of Doxazosin mesylate (DOX) in bulk and tablet formulations was developed. Chromogenic reagent 4-Dimethyl amino benzaldehyde (4DMAB) reacts with primary amine of DOX by Schiff's base reaction forming a light yellow color product (4DMAB-DOX derivative) in methanol at pH-5, which can be measured at λ max 399 nm. Under the optimum conditions beer's law was obeyed in the concentration range of 6.25-100 µgml-1, with the coefficient of determination found to be R2=0.998 and recovery 100.04%. The accuracy of the method was satisfactory; the RSD values did not exceed more than 2%. Interference of other ingredients and additives were not observed. The proposed method was successfully applied for the routine analysis of DOX in bulk and in tablet formulations.

Doxazosin mesylate; Spectrophotometry; 4-(Dimethylamino) benzaldehyde; derivatization

#### Biography.

Mr Zahid Ali Zounr has completed has completed his MSc degree in Forensic Medicine at University of Medical & Health Sciences Jamshoro, Pakistan. Department of Forensic Medicine Jamshoro Liaquat and Medical Technologist. He has research interest in Pharmaceutical Analysis.

zahid\_zounr100@yahoo.com