International Journal of Medicine and Pharmaceutical Sciences (IJMPS)
ISSN(P): 2250-0049; ISSN(E): 2321-0095
Vol. 6, Issue 1, Feb 2016, 79-86

DEVELOPMENT AND VALIDATION OF UV SPECTROPHOTOMETRIC METHOD FOR SIMULTANEOUS DETERMINATION OF ATAZANVIR SULPHATE AND RITONAVIR IN ITS PURE AND PHARMACEUTICAL DOSAGE FORMS

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ABSTRACT

UV Derivative Spectrophotometric methods for Method I Simultaneous determination Method II First derivative method of Atazanavir sulphate and Ritonavir in tablet were developed in the present work. Spectrophotometric method for Simultaneous and First order derivative method of Atazanavir sulphate and Ritonavir at λmax 249 nm and 239 nm respectively. The various parameters were studied according to ICH. The linearity lies between 5–30 µg/ml for Atazanavir sulphate for two methods and 15–90 µg/ml for Ritonavir for method I and 10-90 µg/ml for first order method. Method II First order derivative was measured at 254 nm and 264 nm being Zero crossing point for Atazanavir sulphate and Ritonavir respectively in methanol. The proposed method has estimated for Method I Atazanavir sulphate and Ritonavir 100.01±0.117, 100.86±0.123 and for method II Atazanavir sulphate and Ritonavir 100.29±0.117, 99.09±0.121 in tablet. All methods showed good reproducibility and recovery with % RSD less than 1

KEYWORDS: Atazanavir Sulphate (ATV), Ritonavir (RTV), Simultaneous Method and Validation

Received: Oct 13, 2015; **Accepted:** Jan 29, 2016; **Published:** Feb 03, 2016; **Paper Id.:** IJMPSFEB20169

Original Article