Available online at **www.joac.info**

ISSN: 2278-1862

Journal of Applicable Chemistry

2019, 8 (6): 2411-2416

(International Peer Reviewed Journal)

Novel Sensitive UV Spectrophotometric Method for the Determination of Atazanavir

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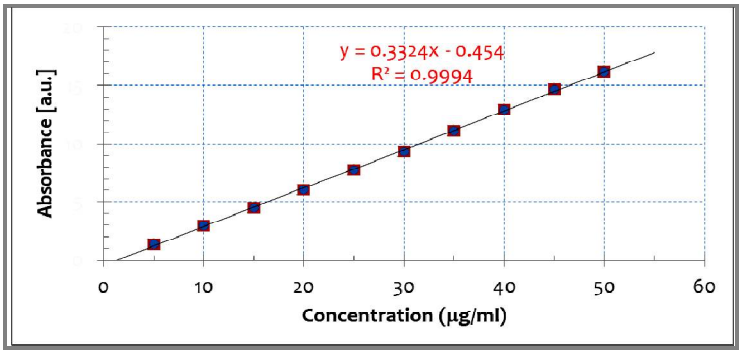
Accepted on 7th November, 2019

ABSTRACT

Atazanavir is an aza-dipeptide analogue with a bis-aryl substituent. A UV spectroscopic technique was developed for the estimation of atazanavir using 20% methanol as solvent and blank was demonstrated at an absorbance maxima 248 nm. This UV method is modest, precise, specific and validated. A linear trendline of (5-50 µg mL^{-1}) was plotted for all the sample absorbance at a wavelength of 248 nm with R^2, 0.9994. The proposed UV spectroscopic technique is simple, specific is accurate, precise and can be employed effectively for the approximation of ATV pharmaceutical dosage form.

Graphical Abstract



Linearity graph for Aazanavir.

Keywords: 4-hydroxy carbazole, epichlorohydrin, 4-(2,3-epoxyprpoxy) carbazole, R software, 2-(2-methoxyphenoxy) ethanamine.