

Simultaneous determination of Metformin, Vildagliptin, and Vildagliptin impurity in bulk, tablet, and human plasma using UPLC-MS/MS

Ramzia Ibrahim ,El Kady, EF; Farouk, F; Azzazy, HME

Abstract

Metformin (M) and vildagliptin (V) are co-administered in tablets used for the management of patients with type II diabetes mellitus. We have developed an UPLC-MS/MS method for simultaneous determination of M, V, and vildagliptin impurity (VI) in bulk, tablet, and plasma.

The method employed electro-spray positive ionization and multiple-reaction monitoring mode. The m/z values for M, V, and VI were 130: 71, 60; 304: 154, 97; and 168: 151, 93.1

[M+ H]⁺; respectively. Chromatographic elution was achieved in 2 min on an UPLC C-18 ...

PBA-RDPA 2013, January