



PharmTech

International Journal of PharmTech Research

CODEN (USA): IJPRIF, ISSN: 0974-4304, ISSN(Online): 2455-9563
Vol.13, No.01, pp 06-19, 2020

A Comprehensive Review on The Estimation of Emtricitabine Individually and in Combination With other Drugs

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Abstract : Emtricitabine is a nucleoside reverse transcriptase inhibitor for the prevention of HIV infection. This drug's, clinical and pharmaceutical analysis requires effective analytical procedures and stability studies for quality control and pharmacodynamics and pharmacokinetic studies. A comprehensive literature survey published in various journals related to analytical and pharmaceutical chemistry was conducted and instrumental analytical methods were developed and used in bulk drugs and pharmaceutical dosage form as single and combined with other drugs. This review will critically examine UV spectroscopy analytical methods (simultaneous equation method, derivative spectrophotometric method, absorption ratio and Q-based method), High-performance liquid chromatography (HPLC), High-performance thin-layer chromatography (HPTLC), Liquid chromatography coupled with tandem mass spectrometry (LC-MS).

Keywords : Emtricitabine, HIV infection, Analytical method, HPLC.

Rubi Shaheen *et al* /International Journal of PharmTech Research, 2020,13(1): 06-19.

DOI= <http://dx.doi.org/10.20902/IJPTR.2019.130102>
