

عنوان مقاله:

Development and validation of analytical method for simultaneous estimation of sofosbuvir and velpatasvir by RP-HPLC method in pharmaceutical dosage form

محل انتشار:

مجله علوم دارویی و شیمی, دوره 3, شماره 4 (سال: 1399)

تعداد صفحات اصل مقاله: 9

نویسندگان:

Patel Grishma - Assistant Professor, Pioneer Pharmacy Degree College, Nr. Ajwa Crossing, Vadodara, Gujarat, India

Patel Dhara - Assistant Professor, Pioneer Pharmacy Degree College, Nr. Ajwa Crossing, Vadodara, Gujarat, India

Reema Mansuri - Assistant Professor, Pioneer Pharmacy Degree College, Nr. Ajwa Crossing, Vadodara, Gujarat, India

Sapra Ritu - Assistant Professor, Pioneer Pharmacy Degree College, Nr. Ajwa Crossing, Vadodara, Gujarat, India

Meshram Dhananjay - Assistant Professor, Pioneer Pharmacy Degree College, Nr. Ajwa Crossing, Vadodara, Gujarat, India

خلاصه مقاله:

In this work, a simple, rapid, accurate, precise, specific, and sensitive RP-HPLC method was developed and validated for the simultaneous estimation of the Sofosbuvir and Velpatasvir in bulk drug and pharmaceutical dosage form. The stationary phase used for the chromatographic separation was Hypersil BDS column C1A column (Yao mmx F.F mm with the particle size of Δ mm) and the mobile phase used for the separation was methanol:phosphate buffer (pHΨ) taken in ratio of Ya:Ya%V/V. The flow rate was 1.0 mL/min at Wo °C. The drugs were detected at the wavelength of Y50 nm. The retention time for the Sofosbuvir (SOFO) and Velpatasvir(VELP) were ٣.٧١۴ and ۵.٢۶٣, respectively. The linearity was performed using the concentration range of Y-1Y μg/mL of Sofosbuvir and ο.۵-Ψ μg/mL of Velpatasvir. The correlation coefficient was found to be o.999 and o.999, respectively. The % purity of the Sofosbuvir and Velpatasvir was found to be 99.0% and 99. μα, respectively. The proposed method was validated for specificity, linearity, precision, robustness and accuracy were within the range of acceptance limit according to ICH QY (B) guidelines and the developed method can be employed for the routine quality control analysis in the bulk and combined .pharmaceutical dosage form of Sofosbuvir and Velpatasvir

کلمات کلیدی:Sofosbuvir, Velpatasvir, HPLC

لینک ثابت مقاله در پایگاه سیویلیکا:

https://civilica.com/doc/1324393



