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## Method development and validation for simultaneous estimation of abacavir and lamivudine by RP-HPLC method

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A simple, accurate, precise method was developed for the Development & validation of the abacavir and lamivudine in tablet dosage form. Chromatogram was run through Inertsil (150 mm, 4.6 mm, 20 µl). Mobile phase containing degassed acetonitrile and methanol in the ratio of 90:10 V/V in trail 2; degassed acetonitrile and methanol in the ratio of 80:20 V/V in trail 3 and; degassed methanol and buffer in the ratio of 80:20 V/V in trail 4. Mobile phase was pumped through column at a flow rate of 1 ml/min. Temperature was maintained at 30°C. Optimized wavelength for Abacavir and lamivudine was 254 nm. Retention time of abacavir and lamivudine were found to be 1.846 min and 9.476 min in trail 2. Retention time of abacavir and lamivudine were found to be 3.796 min and 7.175 min in trail 3. Retention time of abacavir and lamivudine were found to be 3.109 min and 5.287 min in trail 4. Percentage recovery was obtained as 100.15% and 100.04% for abacavir and lamivudine. Limit of detection (LOD) values were obtained from regression equations of abacavir 0.018 and lamivudine were 0.045 respectively. Limit of quantification (LOQ) value of abacavir was found to be 0.055 and lamivudine was 0.137. Regression equation of abacavir is y=86476x+1315, and of Lamivudine is y=37005x+940.6.

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