Five simple, accurate, precise, and rapid high performance thin layer chromatographic methods were developed and validated for the estimation of Abacavir, Tenofovir, Emtricitabine, Efavirenz and Nelfinavir in bulk and in pharmaceutical (Tablets and capsule) dosage forms. The analysis of drugs was carried out on TLC aluminium plates precoated with silica gel 60 F 254 as the stationary phase. The mobile phase used were a mixture of (Chloroform: Methanol 9: 1 v/v), (Chloroform: Methanol 8.5: 1.5v/v), (Chloroform: Methanol 8.5: 1.5v/v), Toluene: Ethyl acetate: Formic acid (10: 3: 1 v/v) and n-Butanol: Ethyl acetate: Diethyl ether (5: 4: 1 v/v) respectively. The detection of spot was carried out at 284nm, 270nm, 275nm, 254nm and 254nm respectively. Linearity was observed over concentration range of 400-2400ng/ml, 200-1200ng/ml, 200-2200ng/ml, 300-1800ng/ml and 400-2400ng/ml with Rf value 0.81±0.02, 0.54±0.01, 0.56±0.02, 0.41±0.01 and 0.55±0.01 respectively. The Limit of detection was found to be 17.068ng/ml while quantification limit was 51.723ng/ml for Abacavir, 4.123ng/ml and 12.494ng/ml for Tenofovir, 4.320ng/ml and 13.092ng/ml for Emtricitabine, 8.190ng/ml and 24.819ng/ml for Efavirenz and 12.658ng/ml and 38.358ng/ml for Nelfinavir respectively. The accuracy of the proposed methods were determined by recovery studies and found to be 99.49 to 99.79 %, 98.39 to 101.19 %, 98.79 to 99.61 %, 99.38 to 99.68 % and 99.44 to 100.52 % respectively. The developed methods were validated according to ICH guidelines and the proposed methods can be successfully used to determine the drug content of marketed formulations.

**KEYWORDS:** Abacavir, Tenofovir, Emtricitabine, Efavirenz, Nelfinavir, HPTLC, Validation, ICH guidelines.