OBJECTIVES
2. OBJECTIVES

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The objectives of the project work were to:

- Develop HPTLC methods for the selected highly active anti retroviral drugs (Abacavir, Tenofovir, Emtricitabine, Efavirenz and Nelfinavir) and their formulations.
- Validate the proposed HPTLC methods as per the ICH guidelines.

Abacavir, Tenofovir, Emtricitabine, Efavirenz and Nelfinavir are the drugs which are used as antiretroviral agents, for the treatment of HIV infection. The American National Institutes of Health and other organizations recommend these antiretroviral drugs for the treatment of HIV infection to all the patients with AIDS. These drugs are available in tablet and capsule dosage form for example Ziagen (300mg of Abacavir), Viread (300mg of Tenofovir), Emtriva (200mg of Emtricitabine), Sustiva (600mg of Efavirenz) and Viracept (625mg of Nelfinavir) respectively. After through survey of literature it was found that only few methods are available for the estimation of these drugs (Abacavir, Tenofovir, Emtricitabine, Efavirenz and Nelfinavir) so an attempt was made to develop some simple, economic and rapid HPTLC methods for the estimation of above drugs in bulk and formulation.

The objective of this work was to develop new, simple, economic, rapid, precise, and accurate HPTLC methods for the quantitative analysis of the drugs (Abacavir, Tenofovir, Emtricitabine, Efavirenz and Nelfinavir) and to validate the methods in accordance with ICH guidelines with shorter runtime, and economic mobile phase.