

# INVESTIGATION OF DUOVIR BY THIN LAYER CHROMATOGRAPHY

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**Introduction.** As it is well known the epidemy of AIDS has started in the first part of 1980<sup>s</sup> and since then it has a great importance. HIV/AIDS is treated with medicines that stop the virus from multiplying. This treatment is called antiretroviral therapy (ART). In the past, people with HIV infection would start antiretroviral treatment after their CD4 count dropped or they developed HIV complications. Today, HIV treatment is recommended for all people with HIV infection, even if their CD4 count is still normal.

Taking into account specificity of epidemic situation in the world, necessity of constant supervision about this problem and features of medical support, are very interesting and important researches targeted on improvement and creation of new analysis techniques for the known substances, which are applied for treatment HIV, and AIDS. Some preliminary stages of elaboration of technique applied in the researches and investigation of the specific features of behavior and skills in various conditions of some substance used in the AIDS therapy were carried out at the pharmaceutical chemistry department of the National University of Pharmacy.

**Aim.** To investigate chromatographic behavior of compositional parts of Duovir on various thin layers of sorbent and in various systems of solvents of various nature. On the basis of the data obtained to choose the most appropriate system for identification on Duovir in thin layers of sorbent and systems of solvents of various nature.

**Materials and methods.** For our researches two type of chromatographic plates: Sorbfil and Merck have been chosen. As a detectors have been chosen such reagents as: Dragendorff reagent, Iodine vapors, UV light, mercuric sulphate with 0,05% diphenylcarbazone solution in chloroform. As a movable phases have been chosen systems of solvents of acidic character; systems of solvents of alkaline nature and systems of solvents of neutral character.

**Results.** As it has been stated according to the data of the conducted investigations, the most suitable systems for the identification of duovir and its compositional parts identification by TLC method on plates Sorbfil and Merck are systems of alkaline character using Dragendorff reagent, UV light, iodine vapours as detectors on plates.

**Conclusions.** The systems of solvents and detectors mentioned above can be taken for identification of duovir and its compositional parts by thin layer chromatography method on the plates Sorbfil and Merck.