

New HPTLC Method for Identification and quantification of Folic acid from Pharmaceutical Dosage Preparation.

Vaijanath G. Dongre, And Vijay A. Bagul.

Dept. of Chemistry, Dr babasaheb Ambedkar Marathwada University, Aurangabad. Maharashtra, India.

A new HPTLC Method has been developed for identification and quantification of Folic acid, N-[4-[[2-amino-4-hydroxy-6-pteridynyl)methyl] amine}benzoyl glutamic acid, a water soluble vitamin. Identification and Quantification were studied with different mobile phases. The best result were obtained on HPTLC silica gel 60 F 254 plates (Merck) with iso-propanol-ethylacetate-water-ammonia, 4:2:2:1 as the mobile phase. Quantification has been done with the help of densitometry at 280nm, using the deuterium lamp. Recovery, linearity, Reproducibility, accuracy was found to be excellent in all the samples studied. The method can be applied successfully for routine analysis of folic acid in number of pharmaceutical dosage preparations. The standard and assay preparations are stable for hours together.