



# High Performance Liquid Chromatography: New Column For High Performance Liquid Chromatography (HPLC)

*Ahmed Merza Hamza, Shahbaz Ahmed Maki, Thualfeqar Ghanim Al-Mohanna*

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New stationary phases for high performance liquid chromatography has been prepared by the reaction of Bromophenol blue salt solution with Amberlite CG-400 (Cl-) resin . The stability of the new attached functional group on the resin was studied against different solvents such as benzene, ethanol, acetonitrile, acetone, methanol, chloroform, and petroleum ether as well as NaOH and HCl solutions. The new prepared resin was found stable and no depletion of the Bromophenol blue moiety from the resin was noticed with the above materials .The FTIR analysis has configured the attachment of Bromophenol on the resin as well as the physical appearance of the new resins. The new stationary phase has been packed into stainless steel column. The resin capacity of newly prepared resin has calculated. The resin capacity for the Amberlite-bromophenol blue salt was found to average 5.27 meq./g which is more than the Amberlite resin, 3.95 meq./g.

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