ABSTRACT

Present study was done to purify human serum proteins manually and systematically. Fractionation of human serum was done with ammonium sulphate, cold ethanol, polyethylene glycol and acetone. Immunoglobulin G was purified from human serum by ammonium sulphate fractionation followed by anion exchange chromatography using UNOsphere Q column. Purified protein sample was found to be compatible more with phosphate buffer saline at pH 7.4 and Mg++. Albumin was purified from human serum by ammonium sulphate fractionation, cation exchange chromatography using UNOsphere S column and sephadex G-75 gel filtration chromatography. Purified protein was more stable with phosphate buffer at pH 7.0 and Fe++. SDS-PAGE showed two bands of 55kDa and 25kDa for human immunoglobulin G and a single band of 66kDa for Albumin. Native-PAGE showed a single band of 150kDa for immunoglobulin G and a single band of 66kDa for albumin.