

ABSTRACT

A new, quick and rapid liquid chromatographic method has been developed by using HPLC for the determination of dextromethorphan and chlorpheniramine maleate in cough and cold TYNO syrup. These compounds are separated less than 07 min on C18 column with an isocratic mobile phase consisting of methanol-dihydrogen phosphate buffer solution made with ultrapure water at pH=3 (60/40, v/v). During the examination of the compounds, flow rate of 0.7 mL/min was maintained and detection occurs at a wavelength of 230nm.. The concentration to response association was found linear over a concentration range of 5-100 μgmL^{-1} for chlorpheniramine maleate and 50 to 1000 $\mu\text{g/mL}$ for dextromethorphan. The projected liquid chromatographic method was effectively tested for the daily analysis of these compounds in different cough syrups available in market. The occurrence of supplementary compounds like preservatives and excipients did not exhibit any remarkable interference on the analysis of these compounds.