Abstract

Easy, the accurate, sensitive spectrophotometric method used to determine Benzocaine in a pure and pharmaceutical preparation. The proposed method depends on using Promethazine hydrochloride as a reagent. Where it depends on oxidative coupling reaction of benzocaine by cerium ammonium sulphate with promethazine hydrochloride in the presence of hydrochloric acid to form green dye product, lmax 615 nm. Beers law is obeyed in the concentration of $(5-300~\mu g~ml^{-1})$. The molar absorptivity is $(1.77*10~3)~L~mol^{-1}~cm^{-1}$, a sandal sensitivity of $(0.0098)~\mu q~cm^{-2}$ and RSD $(\pm~0.56\%)$. The method gave a successful determination for benzocaine in a pharmaceutical preparation. © 2018 Pharmascope Publications. All rights reserved.