Novel Spectrophotometric Methods for Determination of Salicylamide and Ascorbic acid in their binary mixture

Mohamed Mohamed, Nourudin Wageih Ali, Hala El-sayed Zaazaa, Mohamed Abdelrahman, Maimana Ahmed Magdy,

Professor of Analytical Chemistry

Abstract

Summary: Simple, selective and precise four spectrophotometric methods were developed and validated for quantitative determination of Salicylamide (SAD) and Ascorbic acid (ASC, Vitamin C) in their binary mixture. Method A is Area under curve spectrophotometry, in which the area under curve in the wavelength ranges 225-245 nm and 265-285 nm were selected for determination of SAD and ASC. Method B is based on dual wavelength spectrophotometry, where ASC can be determined by difference in absorbance at 249.8 ...