



ORIGINAL RESEARCH ARTICLE



Spectrophotometric determination of chlorpheniramine maleate and phenylpropanolamine hydrochloride in dosage forms

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ABSTRACT

A rapid and simple method for simultaneous determination of Chlorpheniramine Maleate (CPM) and Phenylpropanolamine Hydrochloride (PPM) by first derivative UV spectrophotometry has been developed in combined pharmaceutical dosage forms. The proposed method was successfully applied for the determination of drugs in physical mixture and commercial formulations and results showed good linearity, precision and reproducibility.

Key Words: Derivative, UV absorption, spectral overlap, principle maxima, wavelength range, analytical signal.

INTRODUCTION

Chlorpheniramine maleate (CPM) inhibits the effects of histamine on capillary permeability and bronchial smooth muscles. It is an anti-allergic drug, widely used in cough-cold preparations. Phenylpropanolamine hydrochloride (PPM) is indirectly acting sympathomimetic agent and it is used in the symptomatic relief of nasal congestion. These drugs are used either alone or in combination. The simultaneous determination of these drugs is not possible by direct UV absorption measurement method because of spectral overlap of their principle maxima. The present work consists of taking a derivative of convenient order of the analytical signal i.e. absorbance in the wavelength domain. Besides the official methods (IP & USP) the other analytical methods available in literature for determination of Chlorpheniramine Maleate (Alsa El-Gindy *et al.*, 2005; Cieri *et al.*, 2006; Fried *et al.*, 2002; Liao *et al.*, 2008; Marin *et al.*, 2002; Roushollah Heydari *et al.*, 2008; Senyurva *et al.*, 2002), Phenylpropanolamine Hydrochloride (Abbasi *et al.*, 2006; Azhagvuel *et al.*, 2007; Ferreyra *et al.*, 2002; Issa *et al.*, 2005; Kaddoumi *et al.*, 2004; Nakashima *et al.*, 2002) and combination of

Chlorpheniramine Maleate & Phenylpropanolamine Hydrochloride (Fabrizio *et al.*, 1980) have been mentioned. These methods are time consuming; therefore an alternative method for selective derivative UV spectrophotometry is rendered.

MATERIALS AND METHODS

Materials

Authentic specimens of CPM and PPM were provided as a gift samples from M/S Pethico Pharmaceuticals, Indore. All other reagents used were of analytical grade.

Analysis of commercial tablets & recovery studies

Spectrophotometric analysis was carried out on a Shimadzu UV 160-A spectrophotometer in 1cm matched quartz cells. The amplitudes were obtained directly from the display of the first derivative in the wavelength range 200-325 nm with the derivation interval 5nm at a medium scan speed for determination of CPM and PPM. The standard calibration curves of both the drugs were prepared to ascertain that the drugs solutions obey the Beer's Law in the concentration range to be utilized for the preparation of mixed standards, it was found that both the drugs followed Beer's Law in the working range of concentrations i.e. 0-24 µg/ml for CPM and 0-450 µg/ml for PPM. The solutions of both the drugs were prepared in distilled water.

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