Ovidius University Annals of Chemistry Volume 21, Number 2, pp. 157-162, 2010

Validation of UV molecular absorption spectrometric method for loratadine determination

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Abstract The objective of this study was the validation of a developed spectrophotometric method in order to determine loratadine, a miscellaneous and "nonsedating" antihistamine agent. Loratadine and potassium tetraiodomercuriate form a macromolecule which can be detected by molecular absorption spectrometry in well-determined working conditions: reaction environment, the optimal amount of reagent, time reaction. The following parameters were studied: linearity, precision (repeatability of the detection, repeatability of the method and intermediate precision), exactness, limit of detection, limit of quantification. The method will be used to analyze biological and pharmaceutical samples for application in pharmacokinetic or bioequivalence studies.

Keywords: loratadine, potassium tetraiodomercuriat, linearity, precision, exactness

ISSN-1223-7221