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| **Two Spectrophotometric Methods for the Simultaneous Analysis of Nadifloxacin and Mometasone Furoate in Cream**  |
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| Abstract:  | The present work describes absorbance correction and zero crossing derivative method spectrophotometric method for the synchronized determination of nadifloxacin and mometasone furoate in cream. In absorbance correction method, nadifloxacin and mometasone furoate showed absorbance maxima at 295 nm and 247 nm in methanol. The linearity was obtained in the concentration range of 2-30 µg/ml nadifloxacin and mometasone furoate, respectively. Zero crossing derivative spectrophotometry involves amplitudes measurement of the first derivative spectra of the standard and sample solution at 302.45 nm for nadifloxacin and 265.50 nm for mometasone. The calibration graph follows beer’s law in the range of 10-60 µg/ml of nadifloxacin and 1-6 µg/ml for mometasone furoate. The method was successfully applied to pharmaceutical dosage form because no interference from the cream excipients was found. The suitability of this method for the quantitative determination of nadifloxacin and mometasone furoate was proved by validation.  |
| Keyword:  | Absorption Correction Method, Zero Crossing Derivative Method, Nadifloxacin, Mometasone Furoate, Cream  |
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