ANALYSIS OF ERGOTAMINE TARTRATE AND CYCLIZINE HYDROCHLORIDE IN TABLET FORMULATIONS BY REVERSE-PHASE HIGH PERFORMANCE LIQUID CHROMATOGRAPHY

BY
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Abstract

This research includes the development of a new reverse-phase high-performance-liquid chromatography (HPLC) method for the determination of ergotamine tartrate and cyclizine hydrochloride in pharmaceutical tablets.

This HPLC method was proved to be fast, sensitive, specific, accurate and reproducible. The total elution time is less than six minutes. The method provides simultaneous separation with minimum manipulation.

The separation was carried out using Hibar pre-packed, Lichrospher (25 cm x 4 mm i.d.), 5-micron, polymeric C<sub>18</sub> column. The mobile phase was 0.01 M ammonium acetate in 35% acetonitrile-water solution with 1% triethylamine, the pH was adjusted to (3.7) by glacial acetic acid. The UV detection was done at 254 nm and the flow rate was 1.5 mL/min. Ethyl paraben was used as internal standard. The proposed HPLC method was verified for linearity, recovery, accuracy, specificity and applicability.