

عنوان مقاله:

Development of a validated HPLC method for the determination of sennoside A and B, two major constituents of *Cassia obovata* Coll

محل انتشار:

Journal of Herbmmed Pharmacology, دوره 3, شماره 2 (سال: 1393)

تعداد صفحات اصل مقاله: 6

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خلاصه مقاله:

Introduction: *Cassia obovata* Coll is the only *Senna* species which grows wild in Iran. In the present study, an optimised reverse High Performance Liquid Chromatography (HPLC) validated method was established for quantification of sennosides A and B, the major constituents of *C. obovata* with a simple and accurate method. Methods: HPLC analysis was done using Waters 515 pump on a Nova-Pak C18 (3.9 × 150 mm). Millennium software was used for the determination of the sennoside A and B in *Cassia* species and processing the information. The method was validated according to USP 32 requirements. Results: The solvent impact on the selectivity factor and partition coefficient parameters evaluated. Using a conventional RP-18 L1 column, 3.9 × 150 mm, the mobile phase was selected after several trials with different mixtures of water and acetonitrile. Sennosides A and B were determined using the external standard calibration method. Using USP 35-NF 30, the LOD and LOQ were calculated. The reliability of the HPLC-method for analysis of sennoside A + B was validated through its linearity, reproducibility, repeatability, and recovery. Finally ethanol:water (1:1) extracts of *Cassia obovata* and *Cassia angustifolia* were standardized by assay of sennoside A and B through above HPLC validated method. Conclusion: Through the above method, determination of sennosides in *Cassia* species are completely possible. Moreover, through comparing the results, even though sennosides are rich in *Cassia angustifolia* but, the results shows that *C. obovata* could be considered as an alternative source for sennosides A and B.

کلمات کلیدی:

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