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⟨ Back to results | 1 of 1 → Export → Download → Print ☑ E-mail Save to PDF Add to List More... > 1 Citation in Scopus 0 International Journal of Pharmacy and Pharmaceutical Sciences Open Access Field-Weighted Volume 6, Issue 11, 2014, Pages 167-170 Citation Impact High performance liquid chromatographic determination of mefenamic acid in human plasma using uv vis detector (Article) Helal Uddin, A.B.M. ⋈, Mohamad, H.J., Al-Aama, M., Amiruddin, N. 🔾 Department Of Pharmaceutical Chemistry, International Islamic University Malaysia (IIUM), Jalan Istana, Bandar PlumX Metrics Indera Mahkota, Kuantan, Pahang, Malaysia Usage, Captures, Mentions, Social Media and Citations **Abstract** View references (9) beyond Scopus. Objective: Mefenamic Acid (MA) is a non-steroidal anti-inflammatory drug (NSAIDs). This drug provides analgesic and antipyretic (fever reducing effect) and higher doses, anti-inflammatory effect. This study is focused to develop a rapid and sensitive method for the detection of mefenamic acid in human plasma. Cited by 1 document Methods: Protein precipitation technique using acetonitrile was used. Chromatographic separation was achieved on Agilent Zorbax Eclipse XDB-C₁₈ (150 mm x 4.6 mm, i. d 3.5 μm) with a mobile phase consisting of acetonitrile and 2% Micellar HPLC method for triethylamine (pH was adjusted to 4.2 with phosphoric acid) in a ratio of 60:40. The retention time for mefenamic acid simultaneous determination of and diclofenac was 5.4 and 3.9 minutes respectively. The mefenamic acid was monitored at 280 nm using variableethamsylate and mefenamic acid in presence of their main wavelength detector. impurities and degradation Results: The recovery was found 83% for MA. The method was validated according to the Centre for Drug Evaluation products and Research (CDER) guidelines. Calibration plot was linear within the range from 250 to 5000ng ml⁻¹ with the Ibrahim, F., El-Din, M.K.S., Elcoefficient of determination (r2) of \geq 0.99. The quality control samples of mefenamic acid which was termed as low (L), Deen, A.K. (2017) Journal of medium (M) and high (H) were analysed to get the precision and accuracy. The accuracy for intra-day for L, M and H Chromatographic Science was 99.71%, 93.8% and 89.52% while for inter day were 97.67%, 93.46% and 91.67% respectively. On the other hand, coefficient variance (CV) for intra-day precision for L, M and H was found 2.57%, 2.45% and 1.45% and for inter day View details of this citation CV were 3.11%, 5.5% and 4.37% respectively. Diclofenac sodium was used as internal standard for this study. Conclusion: The results were in compliance with CDER guideline. © 2014, International Journal of Pharmacy and Inform me when this document is cited in Scopus: Pharmaceutical Sciences. All right reserved. Set citation alert > Set citation feed > Author keywords HPLC Human plasma Mefenamic Acid Protein precipitation UV detector Related documents Indexed keywords Liquid chromatography method for determination of mefenamic EMTREE drug terms: mefenamic acid acid in human serum Rouini, M.-R., Asadipour, A., EMTREE medical Article controlled study drug determination drug stability Ardakarii, Y.H. terms: Hello! The Scopus team is continually looking for ways to make our Scopus even better.

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