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LC-MS/MS method for the simultaneous quantification of luteolin, wedelolactone and apigenin in mice plasma using hansen solubility parameters for liquid-liquid extraction: Application to pharmacokinetics of Eclipta alba chloroform fraction

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Hanumanth Srikanth Cheruvu, Navneet K. Yadav, Guru R. Valicherla, Rakesh K. Arya, Zakir Hussain, Chetan Sharma, Kamal R. Arya, Rama K. Singh, Dipak Datta, Jiaur R. Gayen

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ACCEPTED MANUSCRIPT

LC-MS/MS method for the simultaneous quantification of luteolin, wedelolactone and apigenin in mice plasma using hansen solubility parameters for liquid-liquid extraction: application to pharmacokinetics of *Eclipta alba* chloroform fraction

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Running title: Simultaneous bio-analysis of luteolin, wedelolactone and apigenin using hansen solubility parameters for liquid-liquid extraction

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Abbreviations: APG, Apigenin; CE, Collision Energy; CXP, Collision Exit Potential, DP, Declustering Potential; EP, Entrance potential; FDA, Food and drug administration; GA, Genetic Algorithm; HSP, Hansen Solubility Parameters; I.S, Internal Standard; LLE, Liquid-liquid extraction; LTL, Luteolin; MRM Multiple Reaction Monitoring; m/z, mass/charge ratio; QRT, Quercetin; R_a , HSP distance; RP, Reverse Phase; SMILES, Simplified Molecular Input Line Entry System; SPE, Solid Phase Extraction; UFLC, Ultra Fast Liquid Chromatography; WDL, Wedelolactone; δ D, Van der Waals dispersion; δ H, Hydrogen Bonding; δ P, Dipole moment polarity;

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