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Greenness assessment as per Eco-scale and AMVI matrices for the chromatographic assay of drugs in a semisolid dosage form and in tissues**Nada S Ayish, Ahmed S Saad, Mohamed R El-Ghobashy, and Badr A El-Zeany**
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A simple green sample preparation procedure and RP-HPLC method were developed and validated for the determination and quantification of drugs in semisolid dosage form as well as in rat rectal tissues. Sample cleanup was performed using solid phase extraction on strata-X prefilled (100 mg, particle size 33 μ) 3 ml cartridges, conditions were optimized to obtain maximum recoveries and minimal baseline noise. Separation was carried out on Xselect C18 column (250X4.6 mm id, 5 μ m particle size), mobile phase consisting of ethanol: 0.01% aqueous sodium carbonate solution (75:25 by volume) at a flow rate of 1 ml/min and UV detection at 220 nm. The method was validated as per the ICH guidelines. Greenness of the method was assessed throughout the whole procedure of sample preparation, separation and quantification using different matrices and was found to be environmentally friendly as it was also manifested by its greenness profile.



Figure: Graphical abstract representing the chromatographic separation of both drugs from tissue.

Biography

Nada S Ayish a Teaching Assistant in Analytical Chemistry Department, I began my work in research field couple of years ago, in this current work I tried to find a simple rapid and precise method for the determination of these drugs in pharmaceutical formulation as well as in tissues.

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