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# A novel high performance liquid chromatographic method for determination of ceftriaxone in forensic matrices

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An isocratic liquid chromatographic method with UV detection at 242 nm is described for determination of ceftriaxone. Chromatographic separation of drug was achieved on a hypersil ODS C-18 150*4.6 mm, 5 µm column using a mobile phase consisting of a binary mixture of phosphate buffer (4.5590 gm of potassium dehydrogenate orthophosphate in 1.0 liter water and pH was adjusted to 7.5) and methanol in the ratio of 60:40 v/v. The developed liquid chromatographic method offers symmetric peak shape, good resolution and reasonable retention time for drug. Linearity, accuracy and precision were found to be acceptable over the concentration range of 10-40 microgram/ml for ceftriaxone. The LC method can be used for the detection of ceftriaxone over dosage cases found in various forensic matrices like blood, gastric lavage, viscera and for quality control of formulated products.

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