

HPLC determination of gentamicin by precolumn derivatization using o-phthalaldehyde

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The method is based on the derivatization of gentamicin with o-phthalaldehyde (OPA), followed by detection at 332 nm. Separation was carried on Phenomenex CN (250 x 4.6, 5 μ m particle size) column with of acetonitrile and pH-3.73 buffer in the ratio of 77:23 with a flow rate of 1 ml/min. The limit of detection (LOD) and limit of quantification (LOQ) of this method was found to be 0.116 mcg and 0.348 mcg respectively. The method was found to be linear in the concentration range of 4-20 mcg/ml. The recovery value of this method was found to be 98.67%.

Biography

Venkata Sairam.K, is a student of JSS College of Pharmacy, JSS University, Mysore. He has completed his B.Pharm from JSS College of Pharmacy, Mysore. Presently he is pursuing M.Pharm Degree in the branch of Pharmaceutical analysis. His current area of research is on analytical method development of novel drugs using HPLC and GC.

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Rapid separation and identification study of different metal ions by thin layer chromatography using urea-formaldehyde polymer as thin layer

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Different metal ions were separated on thin layer of laboratory prepared urea-formaldehyde polymer using cationic and anionic surfactants, organic, acidic and neutral mobile phases. Using different organic solvents in different ratios of water as a mobile phase different metal ions and their binary and tertiary mixture of metal ions were separated. By using ethanol and surfactants in different ratios as a mobile phase different metal ions and their binary mixture of Cu^{2+} - V^{5+} , Fe^{3+} - Cu^{2+} , U^{6+} - Fe^{3+} , U^{6+} - V^{5+} and tertiary mixture of U^{6+} - Fe^{3+} - Cu^{2+} were successfully separated.

Biography

Vijay S. Nagpurkar has completed his M.Sc. in Organic Chemistry from Hislop College, Nagpur in 2007. He is research student in Dr. Mrs. Ira Nimdeokar P.G. and Research Center for Chemistry, Hislop college, Temple road, Civil lines, Nagpur-440001, under the guidance of Dr. Lata Deshmukh and Dr.L.J. Paliwal. He has published one paper in "International Conference on Chemistry for Mankind Innovative Ideas in Life Sciences" which was held on 9-11 February, 2011 in Nagpur.

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