USP Methods for the Analysis of Epinephrine Using the Legacy L1 Column

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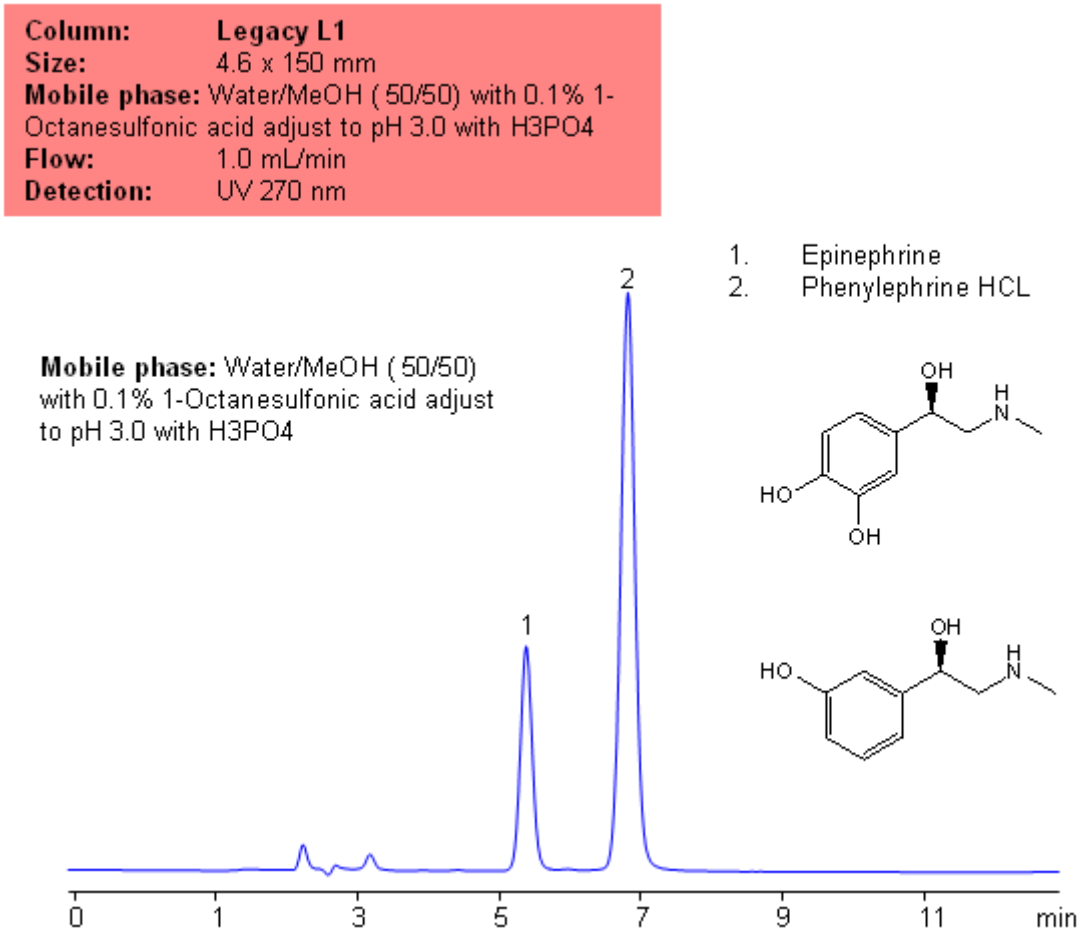
Chromatogram



Description

Application Notes: Epinephrine is a synthetic adrenaline used to treat cardiac arrest and anaphylaxis. Phenylephrine is a decongestant and is often used instead of pseudoephedrine. According to the USP methods epinephrine contains no less than 97% and no more than 100.5 percent of epinephrine calculated on a dried basis. The USP HPLC method for the separation of phenylephrine and epinephrine was developed on Legacy L1 column according to the US Pharmacopeia methodology. L1 classification is assigned to reversed-phase HPLC column containing C18 ligand. Support for the material is spherical silica gel with particles size 3-10 um and pore size of 100-120A. Resolution between critical pairs corresponds to rules and specifications of USP.

Application Columns: Legacy L1 C18 HPLC column

Application compounds: Epinephrine and Phenylphrine Mobile phase: Water/MeOH (50/50) with 1% 1-Octanesulfonic acid adjust to pH 3.0 with H3PO4

Detection technique: UV · Reference: USP35: NF30

Method Parameters

Mobile Phase	MeOH/MeOH – 50/50%

Buffer	1-Octanesulfonic acid adjust to pH 3.0 with H3PO4 – 0.1%
Flow Rate	1.0 ml/min
Detection	UV, 270 nm
Class of Compounds	Drug, Antiarrhythmic, Hydrophobic, Ionizable
Analyzing Compounds	Epinephrine

HPLC Column Used

Legacy L1, 4.6×150 mm, 5 µm, 100A

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