

Contraceptive Hormones on Allure® Basix

Peak List:

1. uracil (marker)
2. norethindrone
3. medroxyprogesterone

Sample:

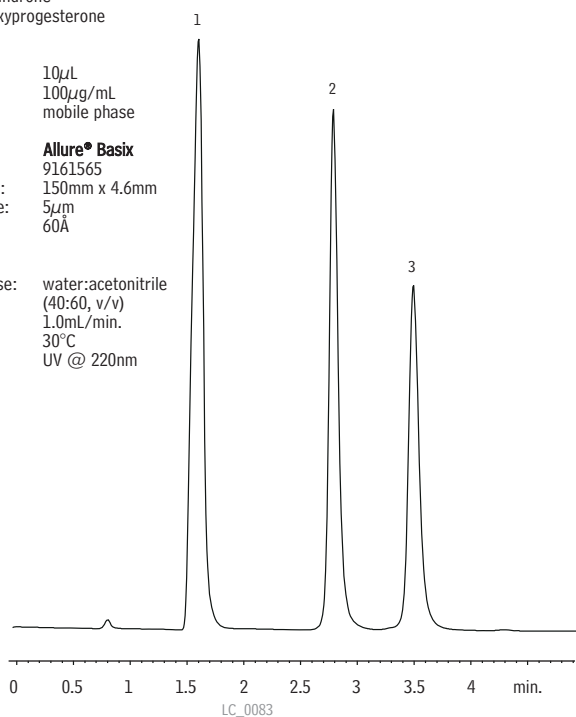
Inj.: 10µL
 Conc.: 100µg/mL
 Solvent: mobile phase

Column: Allure® Basix

Cat.#: 9161565
 Dimensions: 150mm x 4.6mm
 Particle size: 5µm
 Pore size: 60Å

Conditions:

Mobile phase: water:acetonitrile
 (40:60, v/v)
 Flow rate: 1.0mL/min.
 Temp.: 30°C
 Det.: UV @ 220nm



Hormone Levothyroxine on Ultra PFP

Peak List:

1. unknown
2. levothyroxine

Sample:

Inj.: 20µL
 Conc.: 1.1mg/mL
 Solvent: water:methanol
 (70:30)

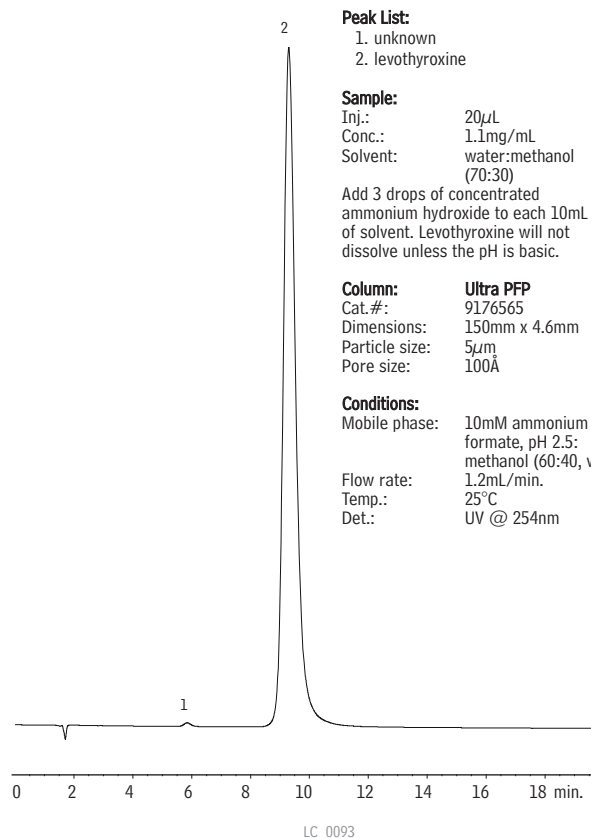
Add 3 drops of concentrated ammonium hydroxide to each 10mL of solvent. Levothyroxine will not dissolve unless the pH is basic.

Column: Ultra PFP

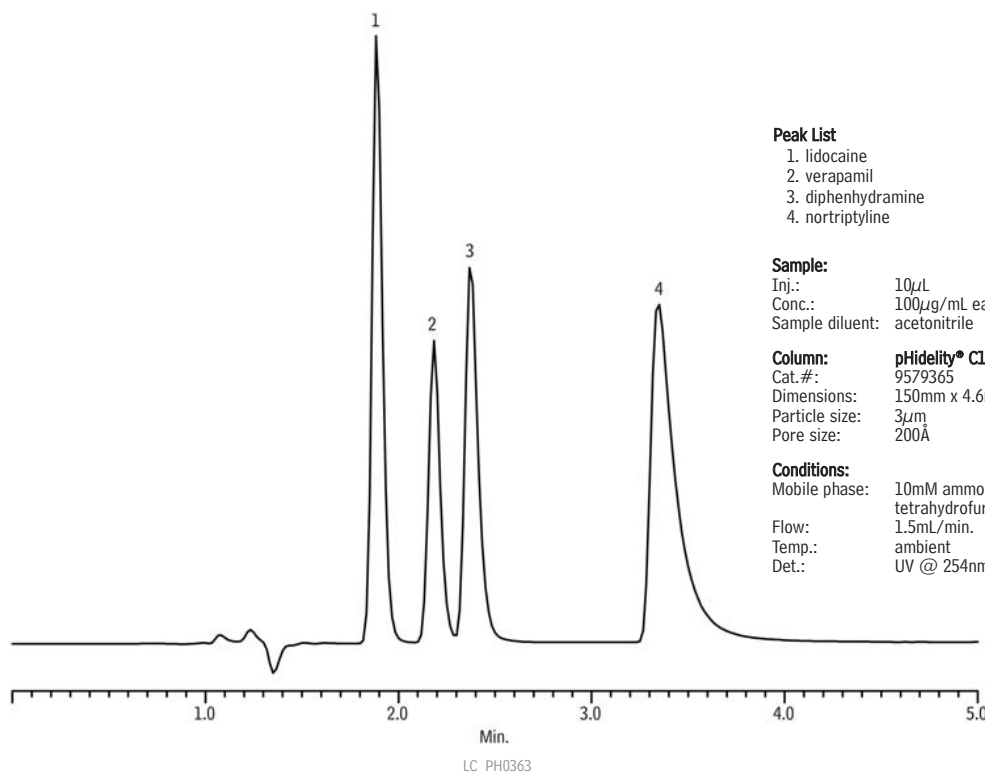
Cat.#: 9176565
 Dimensions: 150mm x 4.6mm
 Particle size: 5µm
 Pore size: 100Å

Conditions:

Mobile phase: 10mM ammonium formate, pH 2.5:
 methanol (60:40, v/v)
 Flow rate: 1.2mL/min.
 Temp.: 25°C
 Det.: UV @ 254nm



Basic Drugs on pHidelity® C18, pH 11



Peak List	pKa	Retention Time (min.)
1. lidocaine	7.9	1.904
2. verapamil	8.9	2.201
3. diphenhydramine	9.0	2.391
4. nortriptyline	9.7	3.366

Sample:

Inj.: 10µL
 Conc.: 100µg/mL each component
 Sample diluent: acetonitrile

Column: pHidelity® C18

Cat.#: 9579365
 Dimensions: 150mm x 4.6mm
 Particle size: 3µm
 Pore size: 200Å

Conditions:

Mobile phase: 10mM ammonium bicarbonate (pH 11): acetonitrile:
 tetrahydrofuran, 35:55:10 (v/v/v)
 Flow: 1.5mL/min.
 Temp.: ambient
 Det.: UV @ 254nm