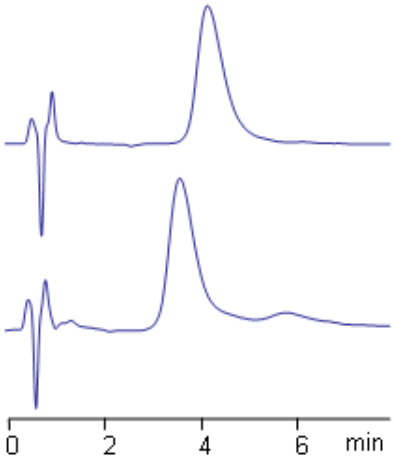
HPLC Analysis of Drugs in Saliva

https://sielc.com/Application-HPLC-Analysis-of-Drugs-in-Saliva

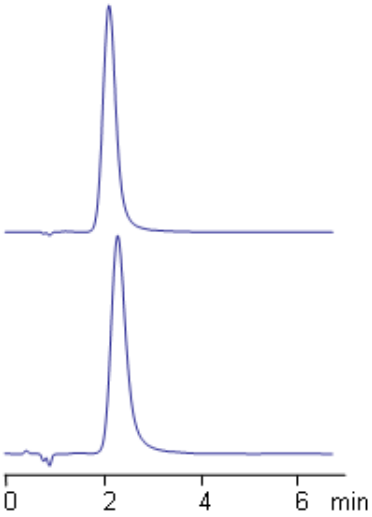
Chromatogram



Dextromethorphan in saliva/water-1/1 injection #1

Dextromethorphan in saliva/water-1/1 injection #100

Column: **Primesep D**
Size: 3.2 x 50 mm
Flow rate: 0.5 mL/min
Detection: UV 230 nm
Injection volume: 5 µL
Drug concentration: 1 mg/mL
Mobile phase: MeCN/H_2O - 5/95 with 20 mM AmFm pH 2.8



Amitriptyline

Trimipramine

Column: **Primesep D**
Size: 3.2 x 50 mm
Flow rate: 0.5 mL/min
Detection: UV 230 nm
Injection volume: 5 µL
Drug concentration: 1 mg/mL
Mobile phase: MeCN/H_2O -10/90 with HCOOH – 0.1%

Description

The presence of three drugs, dextromethorphan, amitriptyline and trimipramine in saliva were analyzed by mixed-mode chromatography on a Primesep D reversed-phase anion-exchange column. No sample preparation is required as proteins from saliva are not retained at these conditions and elute in the void of the column due to cation-exclusion effect. Both column and proteins are positively charged at current conditions. Mobile phase consists of ACN-water-formic acid and is compatible with LC/MS detection technique. This general HPLC method can be used for analysis of hydrophobic basic drugs in biofluids.