

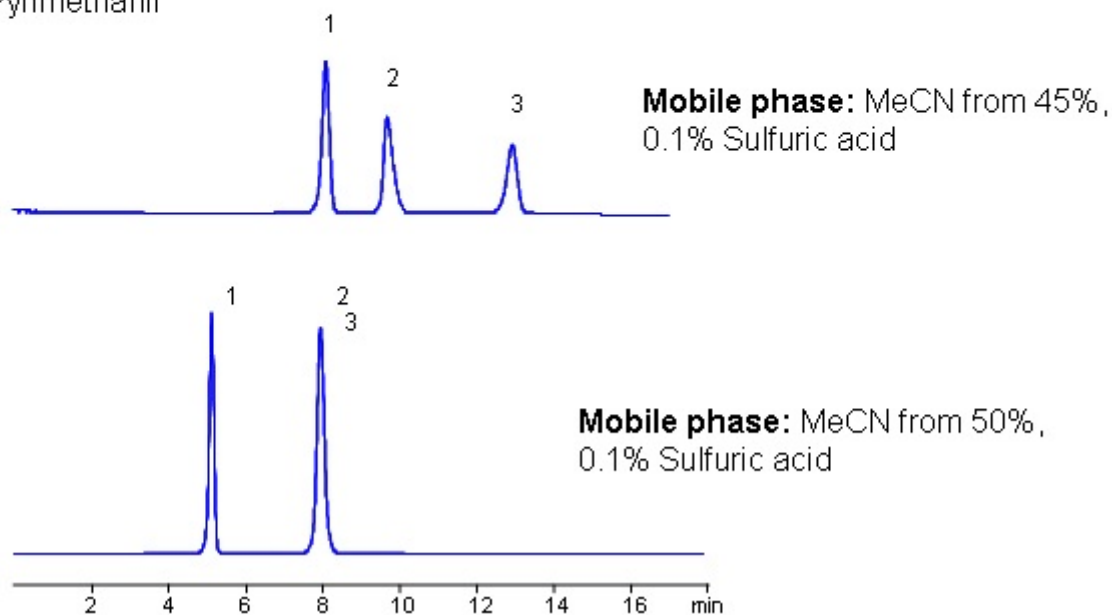
HPLC Separation of Agricultural Compounds Found in Tea

https://sielc.com/HPLC_Separation_of_Agricultural_Compounds_Found_in_Tea

Chromatogram

Column: Primesep 200
Size: 4.6 x 150 mm
Flow: 1.0 mL/min
Detection: UV 250 nm

1. Atorvastatin
2. Picoxystrobin
3. Pyrimethanil



Description

Tea has been known to contain residue of pesticides and fungicides such as picoxystrobin and pyrimethanil. We used Primesep 200, a reversed-phase column with weakly acidic ion-pairing groups to separate picoxystrobin, pyrimethanil and atorvastatin. A 15 minute method used to demonstrate retention control when adjusting ratio of organic to aqueous in the mobile phase. Baseline retention with good resolution was achieved.

Method Parameters

| | |
|----------------------------|--|
| Mobile Phase | MeCN/H ₂ O – 45/55%, MeCN/H ₂ O – 50/50% |
| Buffer | H ₂ SO ₄ – 0.1 % |
| Flow Rate | 1.0 ml/min |
| Detection | UV, 250 nm |
| Class of Compounds | Drug, Statin, Hydrophobic, Ionizable |
| Analyzing Compounds | Atorvastatin, Picoxystrobin, Pyrimethanil, Lipitor |

HPLC Column Used

Primesep 200, 4.6x150 mm, 5 µm, 100A

[Order this column at hplc-shop.de](http://hplc-shop.de) →