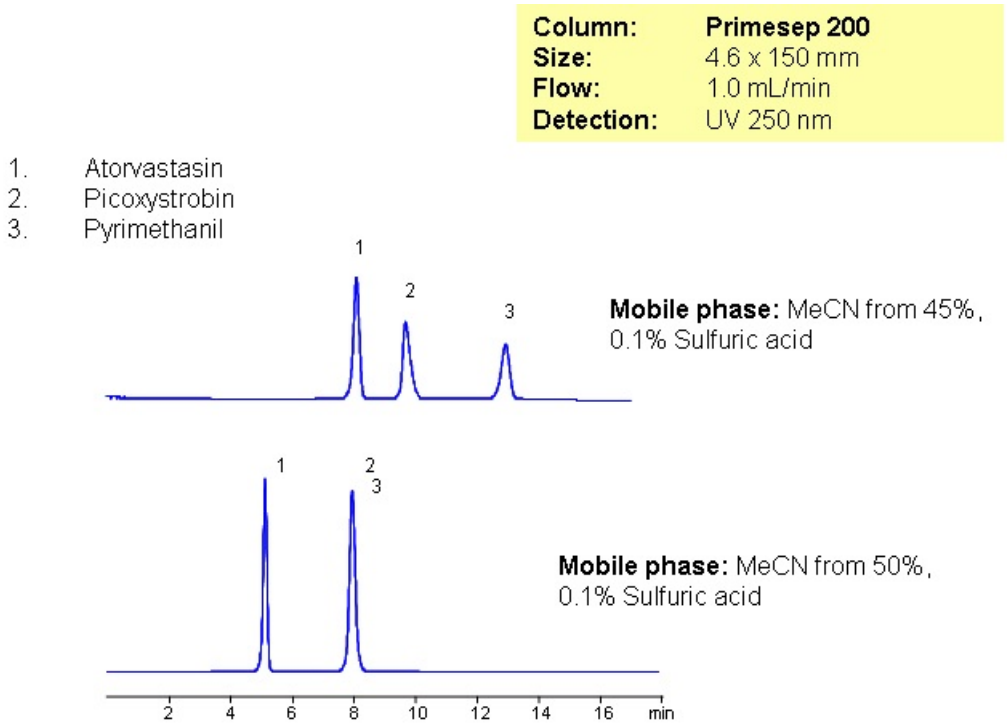
HPLC Separation of Agricultural Compounds Found in Tea



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

Column	Primesep 200, 4.6×150 mm, 5 µm, 100 Å
Mobile Phase	MeCN/H2O – 45/55%, MeCN/H2O – 50/50%
Buffer	H2SO4 – 0.1%
Flow Rate	1.0 mL/min
Detection	UV, 250 nm

Quelle: https://sielc.com/HPLC_Separation_of_Agricultural_Compounds_Found_in_Tea