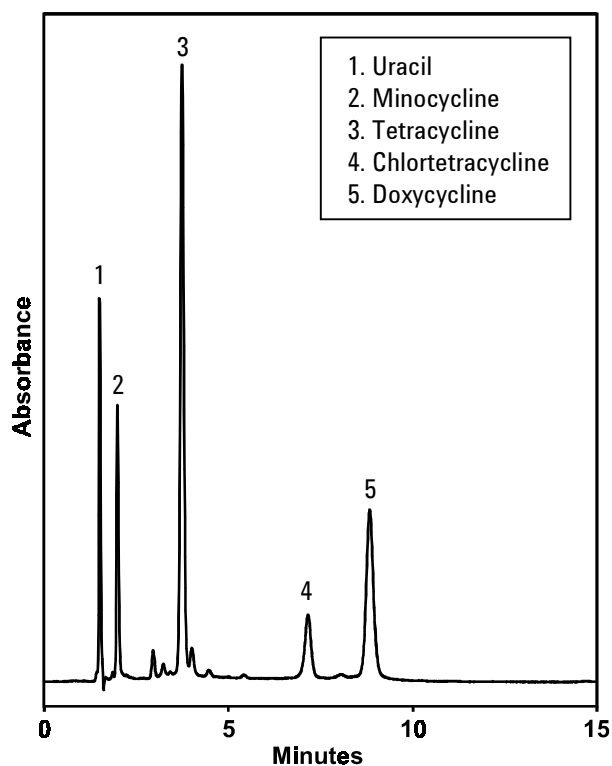


Tetracyclines

Application
Pharmaceutical
Robert Ricker

Tetracycline antibiotics occur as natural products produced from bacteria of the genus *Streptomyces*, or are produced as semisynthetic products in the lab. Due to their high degree of activity towards a wide range of both gram-positive and gram-negative bacteria, tetracyclines are commonly used as pharmaceuticals and are also used as additives in feed for animals. This application demonstrates the use of a mobile phase commonly used to solve the sometimes challenging chromatography of these substances.



Conditions:
ZORBAX Rx-C8 (4.6 x 150 mm) (Agilent P/N: 883967-901)
Mobile Phase: 75:25 0.1% TFA : Acetonitrile
1.0 mL/ min, Ambient, Detect. UV (254 nm)

Highlights

- *Excellent peak shape and resolution are maintained for this group of tetracyclines on the ZORBAX Rx-C8 at low pH.*
- *Due to their extreme stability at low pH, sterically protected bonded phases, which include ZORBAX Rx-C8, are well-suited to mobile phases containing TFA.*



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