

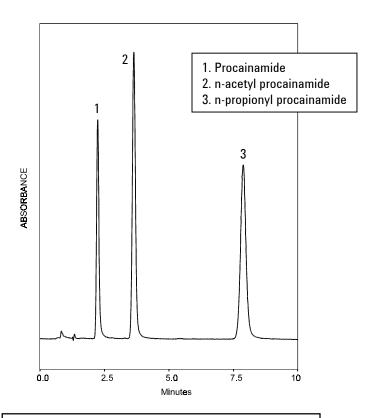
Procainamides and Metabolites on ZORBAX XDB-C8

Application

Pharmaceutical

Robert Ricker

Procainamide is prescribed as an anti-arrhythmic medication for cardiac patients. It has a major metabolite, n-acetylprocainamide, which also appears in this separation, along with n- propionylprocainamide. The USP XXIII assay for this drug product is performed at pH 7.5. At high pH, more silanol groups are ionized and are active to interact with analyte. The ZORBAX Eclipse packings (e.g., XDB-C8) are better suited to intermediate-pH applications because their extra-dense bonding and double endcapping better shields active silanols.



Conditions:

ZORBAX XDB-C8 (4.6 x 150 mm) (Agilent P/N: 993967-906) Mobile Phase: (90:10) 20 mM Na_2HPO_4 (pH 7.0): ACN Injection 5µL, 1.5 mL/min, 40°C, Detect. UV (254 nm)

Highlights

 The ZORBAX XDB-C8 provides good peak shape and resolution of procainamides at the USPrecommended mobile-phase pH of 7.0 or higher.



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