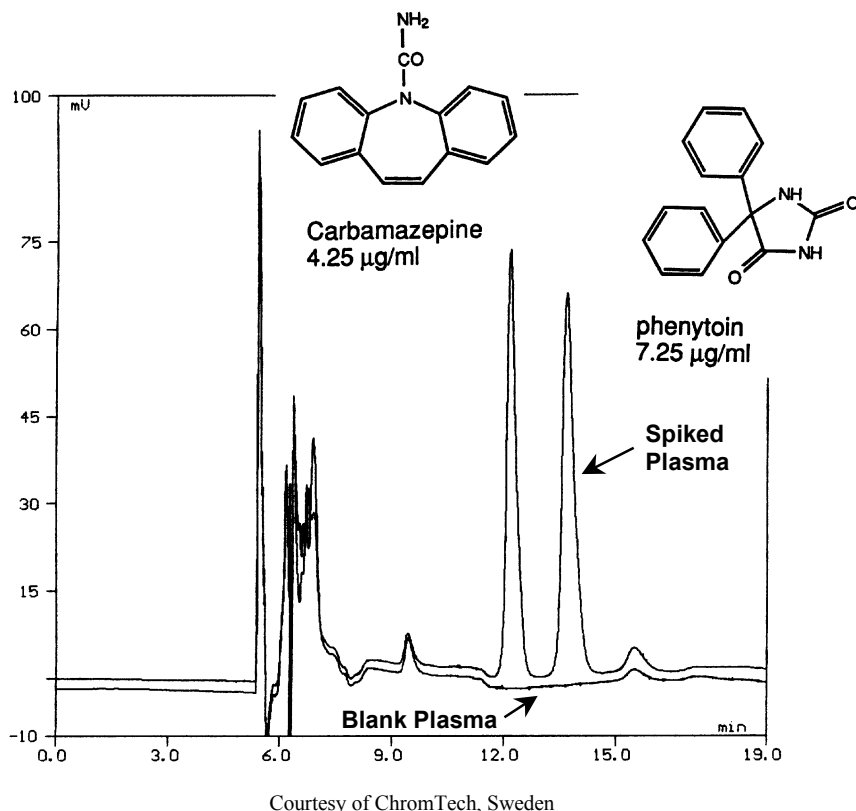


Analysis of Carbamazepine and Phenytoin in Plasma

Application
Pharmaceutical
Robert Ricker

Carbamazepine and phenytoin are anticonvulsant drugs that are commonly administered and assayed in a clinical setting. Their levels are tested to determine physiological levels in the blood stream upon treatment or misuse. On-line sample preparation/concentration using column switching enabled this analysis to be a fast, direct approach. The final analytical separation was performed using a ZORBAX SB-CN column. For details of the column switching technique visit the applications page of the ChromTech Website: <http://www.chromtech.se/biotrap>



Conditions:
ZORBAX SB-CN, 4.6 x 150 mm, 5µm, Agilent P/N: 883975-905
Mobile Phase: 28% ACN in 116 mM sodium phosphate buffer, pH 2.8
F=1.0 ml/min, Det.: UV 210 nm

Highlights

- After on-line extraction, carbamazepine and phenytoin in a 200µL plasma sample were analyzed using a ZORBAX SB-CN column.
- The analytes eluted from the ZORBAX SB-CN column with excellent peak shape. ZORBAX StableBond columns operate optimally and with excellent stability at low pH.
- **NOTE:** For Investigational / Research only. The performance characteristic for this procedure has not been established. Not for in vitro diagnostic procedures.



Agilent Technologies

*Robert Ricker is an application chemist
based at Agilent Technologies, Wilmington,
Delaware.*

For more information on our products and
services, visit our website at:
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