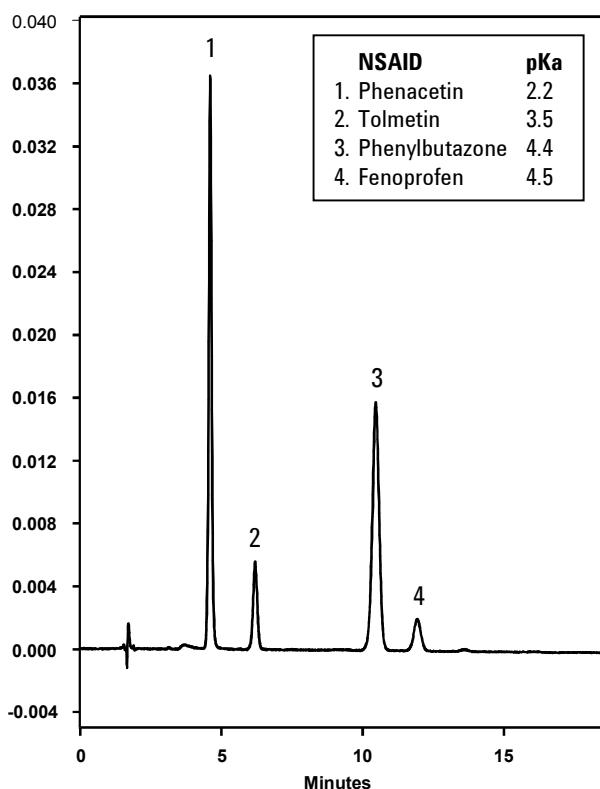




# Narrow-Bore (2.1 mm) Separation of Nonsteroidal Anti-Inflammatory Drugs

Application  
Pharmaceutical  
Robert Ricker

Nonsteroidal anti-inflammatory drugs (NSAID) are commonly referred to as analgesics and are widely prescribed drug products used for the effective relief of mild to moderate pain and inflammation. The fast, accurate quantitation of these drugs is of considerable importance to chromatographers in pharmaceutical, health care, and research environments.



Conditions:  
ZORBAX XDB-C8 (2.1 x 150 mm) (Agilent P/N: 993700-906)  
Mobile Phase: 50:50, 25mM Sodium Phosphate  
(pH 7.0 with Phosphoric Acid) : MeOH  
Injection: 2µL, 0.2 mL/min, 35°C, Detect. UV(254 nm)

## Highlights

- *High-resolution separation of a mixture of analgesics is achieved with a narrow-bore column configuration which can be readily adapted to LC/MS applications.*
- *Eclipse XDB-C8 columns are suitable for separating acidic, basic, and neutral molecules with good peak shape. These analgesics have pKa's ranging from 2.2 to 4.5, representing more-acidic compounds.*



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Printed in the USA  
April 25, 2002  
5988-6383EN



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