97-0905

Waters Application Library

Separation of Barbiturates: Gradient Optimization

HPLC **Journal Information Only Application Library**

Compound: **Pentobarbital; Methohexital; Secobarbital; Talbutal; Benzonal; Secbutabarbital**
Type: Impure Standards
Matrix: Water
Secondary Matrix:

Conditions:

This Analysis Uses Gradient Conditions

Column / Capillary: **Symmetry C18**
Column / Capillary Dimensions: 3.0 by 150 mm
Column / Capillary Part Number: WAT054200
Flow Rate / Voltage: 0.6 ml/min
Temperature: 30 degrees cent.
Injection Volume / Type: 5 ul
Injection Conditions:
Sample Concentration: .25 ug/ml ea
Sample Preparation: none
Run Time: variable

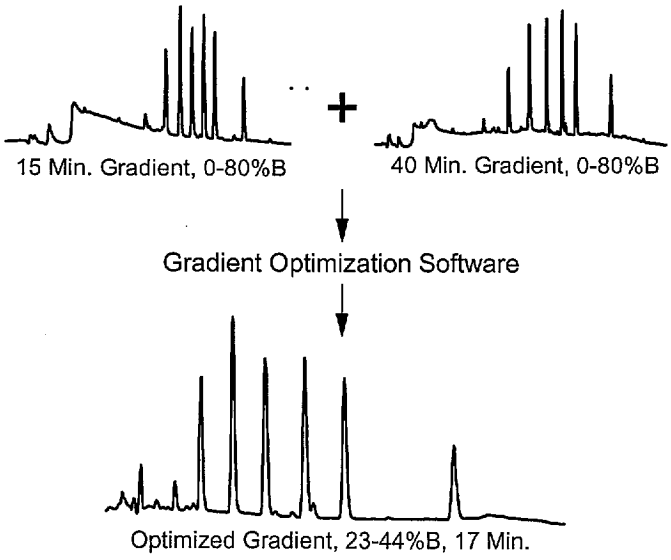
Mobile Phase / Electrolyte: 30 mM phosphate, pH 7.0=A, ACN=B
Gradient Conditions: As outlined below
Detection (Primary): UV @ 214
Detection (Secondary): PDA

Instrumentation /System:

2690, 996, Millennium 2010

Chromatogram / Electropherogram:

Gradient Optimization on 3.0 by 150mm Symmetry C18
Barbiturate Separation



Objectives:

Optimize gradient separation of barbiturates using PhasSep's HIPAC software

Details:

Method developed with the aid of HIPAC, using the 996 PDA spectral library for peak tracking during method development. Final optimized gradient predicted by HIPAC agreed closely with that obtained experimentally.

Ordering Information:

Part Number	Description	Quantity

References:

Reference 1	MSwartz, Pittcon'96 presentation.
Reference 2	
Reference 3	
Reference 4	
Reference 5	

Journal Name:
Volume Number: **Page#:**
Author:
Ref. Number: **Obsolete:** ○ Yes ● No **Date:**

Year: