

Waters Application Library

Separation of Pentobarbitol Enantiomers by Chiral MEKC

CE-Chiral Application Library

Compound:

Pentobarbitol

Type:

Enantiomeric Mixture

Matrix:

Water

Secondary Matrix:

Conditions:

Column / Capillary: AccuSep

Column / Capillary Dimensions: 50 um by 60 cm Column / Capillary Part Number: WAT250-01

Flow Rate / Voltage: 15 KV Temperature: 30 degrees C

Injection Volume / Type: Hydrostatic

Injection Conditions: 10 seconds **Sample Concentration:** 100ug/mL

Sample Preparation:

Run Time:

17 min.

Mobile Phase / Electrolyte:25 mM PO4/BO4, pH 9.0, 50 mM Enantioselect-(S)-Val-1

Gradient Conditions:

Detection (Primary):

214 nm

Detection (Secondary):

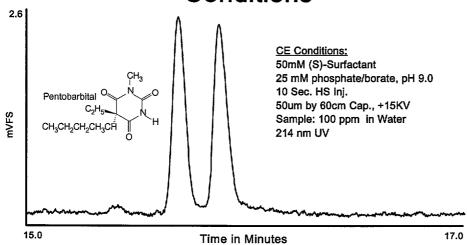
Instrumentation /System:

Waters Q4000E

Millennium Chromatography Manager V2.1 Control

Chromatogram / Electropherogram:

Chiral MEKC Separation of Pentobarbital Enantiomers: Optimized Conditions



Objectives:

Separation of pentobarbitol enantiomers by Chiral MEKC.

Details:

Separation was optimized by adjusting the pH. These conditions will also separate mixtures of various other barbiturates.

Ordering Information:

Part Number	Description	Quantity
WAT066270	WATERS ENANTIOSELECT CHIRAL TEST KIT	1