

# Waters Application Library

Identification of Psuedoephedrine Enantiomers by Chiral MEKC Using Peak Reversal

**CE-Chiral** Application Library

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Compound:

psuedoephedrine; sacharin; doxylamine; acetominophen; dextromethorpham

Type:

Matrix:

Cough/cold preparation

**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: various

Sample Preparation: Dilute 1/50 and filter

Run Time:

35min.

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

**Gradient Conditions:** 

**Detection (Primary):** 

214 nm

**Detection (Secondary):** 

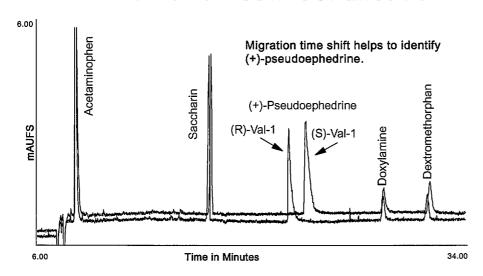
## Instrumentation /System:

Waters Q4000E

Millennium Chromatography Manager V2.1 Control

# **Chromatogram / Electropherogram:**

# CMEKC Migration Order Reversal For Enantiomeric Peak Identification



## **Objectives:**

Identification of psuedoephedrine enantiomers by Chiral MEKC.

#### Details:

The identification of the chiral compound in a complex mixture can be accomplished by utilizing first one Enantioselect reagent, and then the other. This exact migration time reversal can not be accomplished with other reagent such as cyclodextrins without further significant method development.

# **Ordering Information:**

Part Number	Description	Quantity
WAT066270	WATERS ENANTIOSELECT CHIRAL TEST KIT	1

## References:

Year:

Reference 1	Swartz, etal, J. Chrom (Invited), In Press.
Reference 2	
Reference 3	
Reference 4	
Reference 5	

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