



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

# **Conditions:**

**This Analysis Uses Gradient Conditions** 

Column / Capillary:Symmetry C18Column / Capillary Dimensions:3.0 by 150mm and and 4.6 by 75mmColumn / Capillary Part Number:WAT054200, WAT066260Flow Rate / Voltage:0.6, 1.4 ml/min (scaled for column ID)Temperature:30 degrees cent.Injection Volume / Type:VariedInjection Conditions:Scaled for column IDSample Concentration:.25 ug/ml eaSample Preparation:noneRun Time:variable

Mobile Phase / Electrolyte:30mM potassium phosphate pH 7.0, ACNGradient Conditions:23-44% B, time as noted belowDetection (Primary):UV @ 214Detection (Secondary):PDA

### Instrumentation /System:

2690, 996, Millennium 2010

- 1 -

# Chromatogram / Electropherogram:

Increasing Sample Throughput: Converting Gradients to Shorter, More Efficient Columns



## **Objectives:**

Increase sample throughtput. Determine transferability of gradient barbiturate separation from 15 to 75mm long column.

### **Details:**

Run time savings of 50% without a sacrifice in separation Increases sample throughput. Wider ID compensates for increased backpressure of 3.5 micron packing. In addition, use of 3.5 micron packing preserves resolution.

# **Ordering Information:**

Part Number	Description	Quantity