Improved Throughput of deoxyNucleosides Using New Column Configurations

Application

Biochemical

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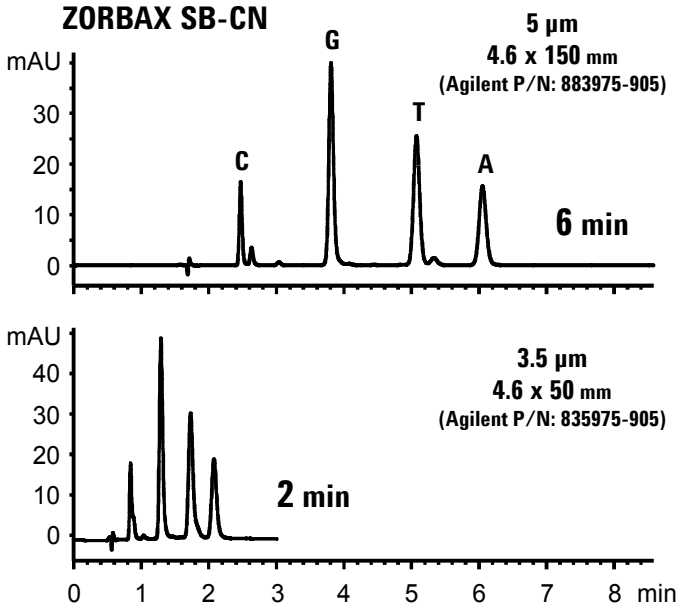
Analysis of deoxynucleosides is commonly performed on hydrolyzed DNA and other samples. While LC allows quantitation, LC-MS allows position confirmation of standard deoxynucleosides, modified deoxynucleosides, and impurities. The following is a very rapid method compatable with LC-MS.

Highlights

- *Agilent ZORBAX SB-CN provides good selectivity for the 4 standard deoxynucleosides.*
- *Shorter columns having 3.5 µm particles can provide very rapid separations; suitable for LC-MS.*
- *Smaller particle columns (3.5 vs. 5 µm) can be used at increased flow rates without reduced loss in resolution.*



Conditions:
LC: HP1090
Mobile Phase: A: 0.1% TFA
B: 97.5% MeOH : 2.5% H_2O (0.1% TFA)
UV: 254 nm; Flow: 1.0 mL / min.; 30°C

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