



# Liquid Chromatography: Chapter 20. Analysis of Neurotransmitters and Their Metabolites by Liquid Chromatography

*K.E. Bosse, J.A. Birbeck, B.D. Newman, T.A. Mathews*

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To achieve quantitative measurements of neurotransmitters, researchers employ analytical methods based on balancing the amenability and limitations of a technique for a specific application. In particular, in-vivo microdialysis sampling has proven indispensable toward improving our understanding of the biological roles mediated by diverse neuroactive compounds. This chapter discusses the development and application of liquid-chromatography methods for analysis of a broad range of neurotransmitters and their metabolites from tissue and dialysate samples in both experimental and clinical settings. Liquid chromatography-based methods are capable of resolving neurotransmitters from complex biological matrices and offer flexibility in coupling to various detection techniques, such as mass spectrometry, electrochemical, and fluorescence. Improved column technologies and separation conditions offer increased efficiency for chromatographic resolution, decreased separation time, improved temporal resolution, and enhanced multianalyte capability. Together, microdialysis sampling and liquid chromatography-based methods continue to be principle techniques widely employed to examine neurotransmitter function in the central nervous system.

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