



Liquid Chromatography: Chapter 15. Advanced Spectroscopic Detectors for Identification and Quantification: FTIR and Raman

J. Kuligowski, B. Lendl, G. Quintás

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The coupling of vibration spectroscopic detectors to liquid chromatography (LC) is an interesting analytical tool that allows combining high resolution from LC with molecular specific information accessible by infrared (IR) and Raman spectrometry. This chapter describes the basics of IR and Raman spectroscopy with a special emphasis on the advantages and pitfalls of these detection techniques in LC. Two fundamentally different coupling approaches, namely, off-line hyphenation involving the physical elimination of the mobile phase and on-line hyphenation through the use of flow cells, are discussed in detail, describing the most important interfaces and diverse practical applications. Strategies for improving performance and especially sensitivity of these detectors exploiting groundbreaking advances in instrumentation are described. Concerning on-line hyphenation, in addition, the challenging task of developing chemometric approaches for accurate background compensation is discussed, as this has been an active field of research in the last years.

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