

4.02 Sampling Techniques for the Determination of Volatile Components in Grape Juice, Wine and Alcoholic Beverages

AM Costa Freitas, Universidade de Évora, Évora, Portugal

MDR Gomes da Silva, Universidade Nova de Lisboa, Campus da Caparica, Portugal

MJ Cabrita, Universidade de Évora, Évora, Portugal

© 2012 Elsevier Inc. All rights reserved.

4.02.1	Chemistry of Volatile Components of Grape Juice, Wine, and Alcoholic Beverages	27
4.02.2	Extraction Techniques	28
4.02.2.1	Solvent-Based Sample Preparation Techniques	28
4.02.2.1.1	LLE	28
4.02.2.1.2	Enhancement of Solvent Extraction Power	29
4.02.2.2	SPE	31
4.02.2.3	Sorptive Sample Preparation Techniques	33
4.02.2.3.1	Headspace Purge and Trap	33
4.02.2.3.2	SPME	34
4.02.2.3.3	SBSE	35
4.02.2.4	Preparative HPLC and SFE as a Multidimensional Preparation Tool for Sample Fractionation	39
Acknowledgments		39
References		39
Relevant Websites		41
