

SPME BOOKS

Solid Phase Microextraction: A Practical Guide

Sue Ann Sheppers Wercinski, ed. 1999, 242pp. This reference book contains extensive descriptions of proven sampling methods for chemical analysis, focusing on SPME application. **26610-U**

Solid Phase Microextraction: Theory and Practice

Janus Pawliszyn, 1997, 241pp. This book describes the operating principles and construction of SPME devices, theory, method development, and applications. **26591-U**

Applications of Solid Phase Microextraction

Janus Pawliszyn, 1999, 653 pp. A compilation of 46 invited chapters describing applications of SPME for foods, forensics, environmental samples, and other areas. **26611-U**

Techniques for Analyzing Food Aroma

Ray Marsilli, ed. 1997, 371 pp. This book discusses the analytical methods for food flavors and aromas, showing how to select appropriate techniques for resolving the problems of major food trends. **26589-U**

SEMINARS

Solid Phase Microextraction (SPME) Seminar Series

Supelco gives customized SPME seminars at the customer's location for groups of ten or more. We design the seminars to your needs to address either the SPME beginner or experienced users. We will tailor the presentation to discuss specific problems or applications that are of special concern or interest to you.

☎ For more information on setting up an on-site SPME seminar, contact us at 888-550-5487.

SAMPLE PREPARATION PERFORMANCE TIP

The Role of Flow Rate in Solid Phase Extraction

All too often, one of the most neglected considerations in the practice of SPE is the control and optimization of flow rate. When developing an SPE method, many analysts pay close attention to such variables as solvent properties, matrix conditions, and pH; however, clear characterization of flow rate is often ill defined. Therefore, subsequent employment of the SPE procedure can often result in low and/or variable recoveries between run to run and user to user.

Flow rates affect analyte recovery, purity, and sampling throughput. In terms of recovery and reproducibility, many methods are especially flow rate sensitive to the load and elution steps; but much less sensitive to the condition, equilibration, and wash steps. The reason is independent of retention capacity, and much more to do with the kinetic sorptive properties of SPE. In other words, when the flow rate is too high for a given SPE step, mobile phase and analyte molecules pass through

NEW LITERATURE

Solid Phase Microextraction (SPME) Troubleshooting Guide

The guide presents a systematic approach to troubleshooting SPME problems. The guide will help you find a quick solution to many problems typically encountered. It also contains helpful tips to prevent problems before they occur, as well as, a troubleshooting table listing the symptoms of common problems, the possible causes, and suggested remedies. By following these recommendations, you can save valuable time and money.

☎ For more information, request T101928

Solid Phase Microextraction (SPME) Quantitation Guide

The guide presents a practical introduction to quantitation using SPME based on your type of sample. We describe the factors that will influence your accuracy and precision and the different quantitation approaches that you can use. To help further, we provide specific examples for each of the different approaches discussed along with specific references for additional reading.

☎ For more information, request T101929

2001 Solid Phase Microextraction (SPME) Application Guide (Third Edition)

Searchable CD format includes over 750 applications, which are defined by analyte and matrix. There are 151 new references in the third edition. The guide helps the analytical chemist to choose the SPME fiber to use for their sample preparation problems. Most entries list the SPME conditions and instrumentation used for the application.

☎ For more information, request T199925



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All literature mentioned in this issue can be obtained from the website, www.sigma-aldrich.com/TheReporter, by completing the Literature Request section on the reply card, or by calling our Technical Service Department.