Dried Blood Spots: Applications and Techniques

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DESCRIPTION

An informative and comprehensive book on the applications and techniques of dried blood spot sampling

Dried blood spot (DBS) sampling involves the collection of a small volume of blood, via a simple prick or other means, from a study subject onto a cellulose or polymer paper card, which is followed by drying and transfer to the laboratory for analysis. For many years, this method of blood sample collection has been extensively utilized in some important areas of human healthcare (for example, newborn screening for inherited metabolic disorders and HIV-related epidemiological studies). Because of its advantages over conventional blood, plasma, or serum sample collection, DBS sampling has been valued by the pharmaceutical industry in drug research and development.

_Dried Blood Spots: Applications and Techniques_ features contributions from an international team of leading scientists in the field. Their contributions present a unique resource on the history, principles, procedures, methodologies, applications, and emerging technologies related to DBS.

Presented in three parts, the book thoroughly examines:

- Applications of DBS sampling and associated procedures and methodologies in various human healthcare studies
- Applications and perspectives of DBS sampling in drug research and development, and therapeutic drug monitoring
- New technologies and emerging applications related to DBS sampling and analysis
Dried Blood Spots: Applications and Techniques is a valuable working guide for researchers, professionals, and students in healthcare, medical science, diagnostics, clinical chemistry, and pharmaceuticals, etc.

ABOUT THE AUTHOR

WENKUI LI currently serves as Senior Fellow in the Department of Drug Metabolism & Pharmacokinetics at Novartis Institutes for BioMedical Research, where he focuses on regulated LC-MS/MS bioanalysis for the toxicokinetic and pharmacokinetic assessment of drug candidates. Dr. Li is a member of the editorial board of Biomedical Chromatography.

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