HPLC and UHPLC for Practicing Scientists, Second Edition is an essential resource for practitioners of all levels who wish to build or improve their HPLC knowledge. The book traces the evolution of the field, from the early history to modern day, and covers the latest technologies and applications, including:

- Validation and method development for HPLC
- Instrumental techniques and new developments
- Instrumentation, method development, and regulatory aspects
- New methods for pharmaceutical, biotechnology, and other industries
- HPLC and UHPLC for practitioners
- HPLC and UHPLC for beginners
- HPLC and UHPLC for experienced practitioners
- HPLC and UHPLC for professionals
- HPLC and UHPLC for students
- HPLC and UHPLC for scientists
- HPLC and UHPLC for engineers
- HPLC and UHPLC for researchers
- HPLC and UHPLC for professionals
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- HPLC and UHPLC for scientists
- HPLC and UHPLC for engineers
- HPLC and UHPLC for researchers

This book is designed for practitioners, as well as students and instructors, who wish to learn about the latest advances in HPLC and UHPLC. It is a comprehensive guide that covers all aspects of the field, from basic principles to advanced topics. The book is written in an accessible style, with clear explanations and practical examples. It is an ideal resource for anyone who wishes to improve their knowledge of HPLC and UHPLC.
Antidepressants are often present in combination with other drugs in suicides and drug-related deaths, so a sensitive and specific method to detect and quantify antidepressants is necessary. We developed a method for the detection and quantification of 18 antidepressants in whole blood, with a limit of 2.5·10^-9 M and LOQ of 2.5·10^-10 M. This method was validated and applied to 10 positive authentic samples, and blind proficiency testing was additionally performed to evaluate the method accuracy and validation by external laboratories. The validate and applied method is useful for pharmacologists and toxicologists.

**Development and Validation of a LC/MS/MS Method for Determination and Quantification of 18 Antidepressants in Whole Blood**

**Introduction**

Antidepressants are often present in combination with other drugs in suicides and drug-related deaths, so a sensitive and specific method to detect and quantify antidepressants is necessary. We developed a method for the detection and quantification of 18 antidepressants in whole blood, with a limit of 2.5·10^-9 M and LOQ of 2.5·10^-10 M. This method was validated and applied to 10 positive authentic samples, and blind proficiency testing was additionally performed to evaluate the method accuracy and validation by external laboratories. The validate and applied method is useful for pharmacologists and toxicologists.

**Method Development**

We developed a method for the detection and quantification of 18 antidepressants in whole blood, with a limit of 2.5·10^-9 M and LOQ of 2.5·10^-10 M. This method was validated and applied to 10 positive authentic samples, and blind proficiency testing was additionally performed to evaluate the method accuracy and validation by external laboratories. The validate and applied method is useful for pharmacologists and toxicologists.

**Results**

We developed a method for the detection and quantification of 18 antidepressants in whole blood, with a limit of 2.5·10^-9 M and LOQ of 2.5·10^-10 M. This method was validated and applied to 10 positive authentic samples, and blind proficiency testing was additionally performed to evaluate the method accuracy and validation by external laboratories. The validate and applied method is useful for pharmacologists and toxicologists.