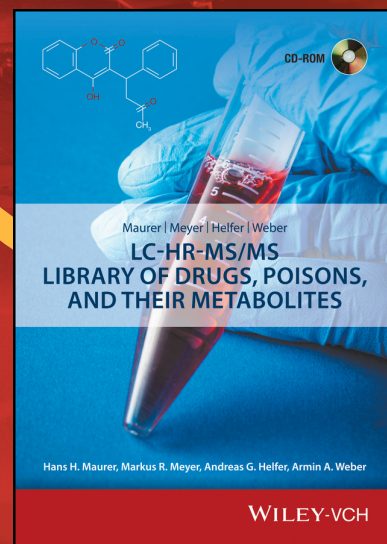


MMHW LC-HR-MS/MS Library of Drugs, Poisons, and Their Metabolites Maurer/Meyer/Helfer/Weber



Introduction

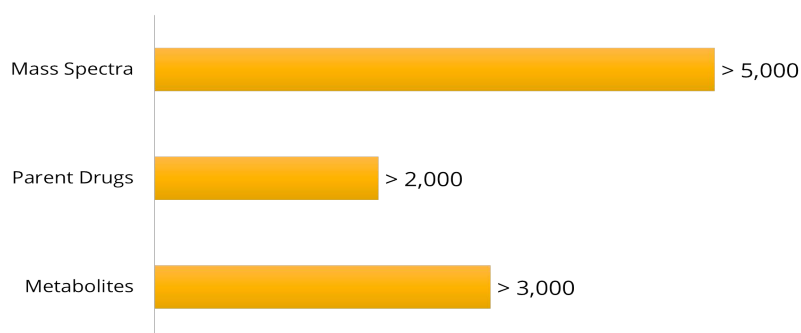
A major goal in clinical and forensic as well as in doping laboratories is a broad screening procedure for detection of toxic compounds or drugs of abuse. In addition to GC-MS and LC-MSⁿ screening techniques, LC-high-resolution-tandem mass spectrometry (LC-HR-MS/MS) provides various advantages for screening approaches such as higher versatility, sensitivity and specificity.

The Maurer/Meyer/Helfer/Weber LC-HR-MS/MS Library of Drugs, Poisons, and Their Metabolites is the basis for metabolite-based screening procedures described for various drug classes.

Detection of metabolites increases selectivity, allows confirmation of the body passage, and finally, minimizes the risk of false negative LC-MS results possibly caused by ion suppression of the target analyte. The LC-HR-MS/MS library features over 2,000 parent drugs or poisons, and over 3,000 of their metabolites or artifacts in over 95 compound classification groups.



Specifications



Compound Classification

Over **95 compound classification** groups for the 5,000 parent drugs and their metabolites or artifacts

- Analgesics
- Anticonvulsants
- Antidiabetics
- Antihypertensives
- Cannabinoids
- Diuretics
- Drugs of Abuse, NPS
- Hypnotics
- Insecticides
- Psychotropics
- Virustatics
- ... and more



Compatibility

Refer to your manufacturer's software manual for specifics

- Thermo™ TraceFinder™
- NIST MS Search



Software/Library Workflow

TraceFinder™ and MS Search Software can be used to screen a sample containing unknown analytes against the **MMHW LC-HR-MS/MS Library** using the workflow, below, and accepted screening methods.



The MMHW library consists of the following compound data :

- Compound name
- Empirical formula
- Exact molecular mass (u) and precursor mass
- Five most intensive fragments
- Polarity
- Retention time (min)
- CAS number
- Category



Ordering Information

Maurer/Meyer/Helfer/Weber LC-HR-MS/MS Library of Drugs, Poisons, and Their Metabolites

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