

1,250  
molecules  
included



Providing high quality metabolite library

# COMPLETE Metabolite Library

standards for mass spectrometry

## SUITABLE FOR:

Metabolomics Analysis  
Method Development  
NMR, GC-MS, LC-MS, CE-MS  
Biomarker Discovery  
Serum/Urine Profiling  
Targeted & Un-targeted Studies  
In-House Spectra Library  
High-Throughput Screening  
Drug Discovery



Photo by Mahbod Akhavan on Unsplash

The MetaSci COMPLETE Human Metabolome Library is a comprehensive library of small molecule standards with more than +1,250 compounds, representing a broad range of metabolites commonly found in human tissues and biofluids. It is designed to assist researchers in identification and quantification of compounds using a wide variety of analytical platforms with applications in medicine, toxicology, food and agriculture. In addition to typical products of primary human metabolism, the library includes an extensive repertoire of metabolites acquired by food consumption, environmental contaminants, drug products, etc.

### Why digital libraries (NIST, METLIN, etc.) are not enough?

Every instrument yields an analysis result specific to its brand, build, methods and other parameters. Digital libraries only contain spectra resulted from the instrument of its producer and lose quality as it is used for other machines. To produce the most accurate result for each instrument a lab should run physical standards on every instrument and on each when the methods or conditions (column, solvent, pH, etc) changes

5-10 mg of compound in  
autosampler vials



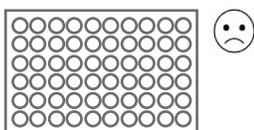
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### EFFICIENT FORMAT

Our samples are provided in individual autosampler vials with septum cap. No solvent is added to the vials to ensure the stability of compounds and to provide flexibly with the solvent used in the study. Unlike 96-well polypropylene plate format, using individual glass vials provides flexibility in preparation, timing and order of the runs.



<math> < 5 \mu\text{g}</math> of compound/well  
Positions locked  
Not re-fillable  
Low stability after adding solvent  
Low conc. upon pooling



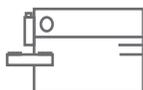
5-10 mg of compound/vial  
Positions can change  
Low cost refills  
High stability of neat compound  
High conc. solution for sample pooling

### MORE THAN ENOUGH QUANTITY

The quantity of each vial is enough for preparation of multiple solutions in desired concentration, for method development and for other applications such as derivatization. The researcher can make high concentration solution to offset dilution effect upon pooling solutions. MetaSci Library is one of the few collections in the world that provides enough material for NMR studies.

### MULTIPLATFORM PRODUCTS

Our metabolite collections can be used for building in-house libraries of spectra for method development and untargeted profiling experiments. The metabolites can be used for mass spectrometry methods or NMR based experiments. Since there is no solvent added to the product in preparation stage, there is no risk of appearance of residual solvent peak.



### WHAT'S IN THE BOX?



1,250 samples  
in 13 boxes



User's manual



Laboratory Information  
Management System

### SOME OF THE AVAILABLE COLLECTIONS (NOV 2021)

COMPLETE Human Metabolite Library (1,250)  
Plant metabolite library (1,056)  
Organic acids library COMPLETE (416)  
Organic acids in urine (105)  
Food components library (1,112)  
Food additives library (+360)  
Bacterial metabolite library (260)  
Fecal metabolite library (574)  
Focused metabolite kits:  
Lipids and carboxylic acids  
Carbohydrates  
Amino acids and peptides  
Polyphenols  
Flavonoids  
Vitamins and Co-factors

### HMDB AND MSI+ SUPPORT

We provide all bioinformatics data through major partner databases such as HMDB, YMDB, ECMDB, FoodDb, T3Db, etc. This includes annotation, taxonomy, CAS number, other identifiers used by PubChem and HMDB corresponding biofluid and structure. Accessing our proprietary Library Information Management System (MSI+) will help the research team to identify each compound, prepare solution, calculate concentration and view available spectral data for each compound.

### EXCELLENT CUSTOMER SERVICE

The libraries typically ship 3-5 days after receiving the order. We will follow with the courier to make sure you receive the product in excellent condition. MetaSci provides the customers all bioinformatics data through HMDB and internal libraries.

### VISIT OUR WEBSITE

For a detailed list of metabolite standards please visit our website at [www.metasci.ca](http://www.metasci.ca)