USP ID

Delivered By: Mestrelab Research

Powerful qNMR analysis made easy

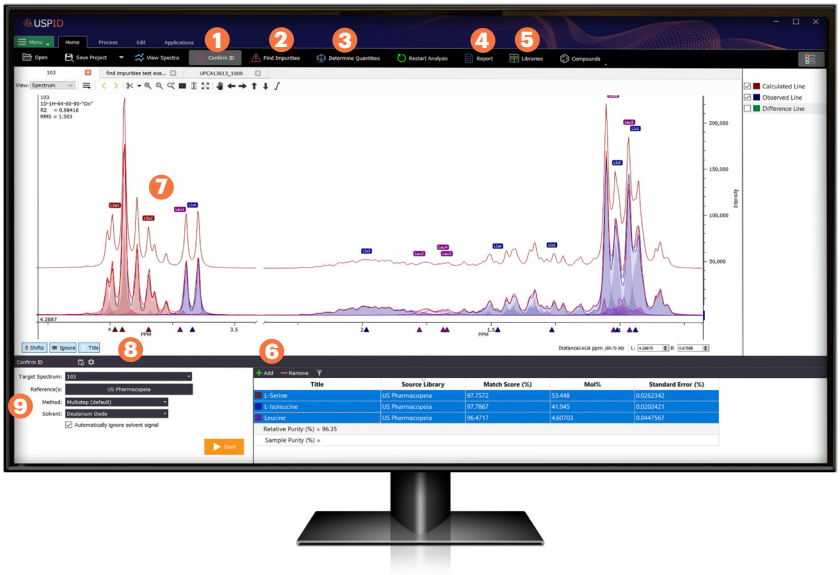
USP-ID, delivered by Mestrelab Research, is a one-click, automated software solution for identifying, quantifying and labelling a broad range of chemical components in both simple solutions and complex mixtures by qNMR.

Benefits

Easily identify chemicals and impurities
USP-ID automatically identifies, quantifies and labels a broad range of chemical components in complex mixtures. With just 10 minutes of video training, NMR becomes more approachable to all.

Resolve overlapping peaks
Improve spectral interpretability with quantum-mechanical models based on USP reference standards and smart analytics. Identify and quantify chemicals, even when no single signal is distinct.

Customize your databases locally
Leverage USP-ID automation capabilities with drop-in support for models and databases that users create and own. USP can provide support with custom model development.



1 Automatic Chemical ID
2 Detect Impurities
3 Automatic Quantitation
4 Report Generator
5 Customizable Libraries
6 Information Workspace
7 Automatic Peak Labeling
8 Multi-library analysis
9 Selectable analytical methods

Bridging the gap

From high-field interpretability to benchtop accessibility

NMR Specifications

Compatible magnet strength	40 MHz – 1.2 GHz
Signal to noise	>250 for quant, >100 for ID
Limits of detection* (depends on S/N)	>0.1% wt%
Limit of quantification*	>0.1% wt%
# of components in a sample	< 20 components
Molecular complexity	Recommend < 20 spin systems, < 25 spin systems max limit
Recommended instrument settings	Pulse angle 90°, Relaxation delay 60 s, (*qNMR acquisition parameter)

* Performance can depend on the specifics of the chemistry and we recommend a feasibility test to confirm performance

Recommended PC Specifications

Operating System	Windows 10
CPU	Intel i7 or better
RAM	16 GB or better
Hard Drive	SSD
Additional Requirements	Microsoft video for viewing training and latest Adobe Acrobat Reader for viewing PDFs

To request a quote or get more information

visit **usp.org/products/qnmr-mestrelab** or email **uspidsupport@usp.org**.

Learn more about

USPID

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