



NIST / EPA / NIH MS/MS Mass Spectral Library 2014

NIST, Wiley Technology

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The **NIST/EPA/NIH MS/MS Mass Spectral Library 2014** contains over 234,000 spectra of over 42,000 ions. The new MS/MS library also contains metabolites, peptides (including biologically active peptides and all di-peptides and tryptic tri-peptides), contaminants, lipids, and more.

The software and search algorithm have been significantly improved. Hit results include display of derivative precursor and additional MS/MS information. Small molecule searching is improved by enabling "deselect peptide scoring" in library search options). Search constraints can include exact mass for either precursor or product ion, taking into account the presence or loss of an electron, adducts, or losses. Exact mass constrain also accepts uncertainty in ppm or millimass units, and allows searching for isotopic or monoisotopic peaks.

Many more improvements to the software include improved data handling (an increase of maximum number of libraries to 127 from previous edition's 16), increased maximum number of spectra to 1,048,560, alternative peak matching to improve MS/MS scoring when searching noisy MS/MS spectra.

This DVD contains the NIST/EPA/NIH MS/MS Mass spectral library in the NIST MS Search format (NIST format, compatible with Agilent, Bruker/Varian, DANI, Jeol, Leco, and Thermo systems).

System Requirements/Recommendations:

- Operating System: Microsoft Windows (7 SP1, 8, 8.1). Windows editions no longer under MS extended support are not officially supported by Wiley.
- Web Browser: Internet Explorer (recommended 9 or later)
- Memory: 2 GB or greater is recommended.
- Disc Space: 3 GB minimum. Recommended 4 GB free space or greater.

The DVD contains detailed installation instructions and a README.TXT file.

The NIST/EPA/NIH MS/MS Mass Spectral Library 2014 is also available in MSP Kofel MassLib format. Please inquire.