Confident compound identification with the most comprehensive GC-MS library

The field-tested Wiley Registry® of Mass Spectral Data, 12th Edition is the largest mass spectral library commercially available, providing over double the compound coverage of our competitors. Applications include untargeted GC-MS screening and accurate mass workflows with MS-TOF instruments.

Experience improved spectral search performance with the 12th Edition. The latest version was extensively validated to sequester and remove suspect spectra from the main library. The new edition also introduces the inclusion of chemical classifications, calculated Kovats retention indices, and splash IDs.

The 12th Edition provides researchers the most assurance that their untargeted spectral search is the broadest available. Expansion on the new edition brings an additional 41,450 spectra into the library.

Specifications

- Mass Spectra: 817,290
- Searchable Chemical Structures: 785,061
- Unique Compounds: 668,452
- Chemical Classifications
- Calculated Kovats RI values
- Splash IDs
- Spectra segmented into separate libraries to optimize searching
Coverage

Compound coverage for individual compounds can be verified at www.compoundsearch.com

Comparison of Wiley Registry 12 to Previous Versions and NIST Libraries

<table>
<thead>
<tr>
<th></th>
<th>WR12</th>
<th>WR11</th>
<th>WR10</th>
<th>WR9</th>
<th>NIST 20</th>
<th>NIST 17</th>
<th>NIST 14</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spectra</td>
<td>817,290</td>
<td>775,818</td>
<td>719,438</td>
<td>662,860</td>
<td>356,643</td>
<td>306,562</td>
<td>275,248</td>
</tr>
<tr>
<td>Unique Compounds</td>
<td>668,452</td>
<td>632,511</td>
<td>583,781</td>
<td>476,553</td>
<td>306,869</td>
<td>262,158</td>
<td>237,409</td>
</tr>
</tbody>
</table>

Unique Spectra Comparison: Wiley Registry 12 vs. NIST / EPA / NIH Library 2020

The Wiley Registry is 81% unique when compared to the NIST 2020 for overlap.

Compatibility

Compatible with most current and legacy mass spectrometry data systems. For full compatibility information please visit sciencesolutions.wiley.com/compatibility