When it comes to identifying unknown spectra, it’s difficult to figure out where to begin. Bio-Rad’s KnowItAll ID Expert offers both novices and experts the perfect place to start.

KnowItAll ID Expert is a completely new technology to provide the fastest, most accurate answers possible to scientists identifying unknown spectra. The spectral intelligence built into KnowItAll ID Expert when used with Bio-Rad’s high-quality KnowItAll Spectral Libraries*—the world’s largest collection—is the recommended first step for anyone identifying unknown spectra.

**How Does It Work?**

- The user simply opens an unknown spectrum and KnowItAll ID Expert automatically performs a series of basic analyses (single and multi-component search, peak search, and functional group analysis) and summarizes the results to give a complete overview of all possibilities for the unknown.

- If there are problems with the unknown spectrum or the reference spectra, ID Expert has the spectral intelligence to identify and fix some of these issues using Bio-Rad’s patent-pending Optimized Corrections technology.

- Once the user has identified the unknown spectrum, a PDF report can be generated with a single click.

**For Advanced Analyses...**

KnowItAll® ID Expert™ is available as part of Bio-Rad’s KnowItAll software packages or as a stand-alone application that can be used along with Bio-Rad’s KnowItAll Spectral Library reference collections. When advanced analyses are required, additional functionality and features are available in Bio-Rad’s KnowItAll Vibrational Spectroscopy or Analytical Edition packages.

**What is Optimized Corrections Technology?**

Bio-Rad’s Optimized Corrections is a spectrally intelligent patent-pending solution built into KnowItAll’s ID Expert to find optimal spectral matches during a spectral database search. It performs a computationally complex set of corrections on all query and reference spectra in a search to find the optimal match between the query and each reference spectrum. Multiple corrections are applied automatically to compensate for differences between spectra caused by the variability of different instruments and accessories as well as other factors, including human error. Corrections include: baseline correction, clipping, horizontal shift, vertical shift, intensity distortion, and ATR correction.

*KnowItAll Spectral Libraries are a KnowItAll Option / Add-On
Unknown Spectral Identification in One-Click!

Built-In Spectral Intelligence

Shows results of basic analyses performed on an unknown spectrum.