



# ezHERBICIDE

## PATENTED TECHNOLOGY DESIGNED FOR FAST, PRECISE, AND ENVIRONMENTALLY RESPONSIBLE HERBICIDE RESIDUE TESTING AND ANALYSIS

With Pace® proprietary technology, customers obtain data up to 50% faster while reducing environmental impact. The ezHerbicide® method combines liquid chromatography with a mass spectrometry system to detect herbicide particles without an impact to expected detection limits. This process ensures more accurate and precise determination of herbicide forms. Smaller sample sizes mean fewer sample containers, reduced shipping, and less solvents used in the processing of samples. Other traditional analytical techniques for measuring the presence of herbicides are time-consuming, labor-intensive, and have limitations on what can be detected.



## SUPPORTED EPA METHODS

**EPA Method SW-846:** 8321B is an analytical procedure developed for detecting solvent-extractable nonvolatile compounds in environmental samples. It's part of the SW-846 compendium, which contains standardized methods for evaluating solid waste under the Resource Conservation and Recovery Act (RCRA). Specifically, this method allows for the detection of these compounds without hydrolysis or esterification during extraction, which helps preserve the original chemical forms of the analytes.

## ECD VS. LC-MS/MS

The Electron Capture Detector (ECD) process is more labor-intensive and generates large amounts of waste in addition to less stable recoveries of targets. This extraction method also uses harmful solvents such as ether and diazomethane, which counterintuitively pose a threat to the environment.

In contrast, the ezHerbicide® direct injection LC-MS/ MS method requires fewer solvents, resulting in less waste while ensuring a more accurate and precise determination of common herbicide forms.

## BETTER CHEMISTRY. HIGHER DATA QUALITY. FASTER RESULTS.

Advanced instrumentation meets smarter chemistry—delivering better science, faster. ezHerbicide® streamlines herbicide analysis with high-quality results in less time. By replacing outdated, labor-intensive lab prep with a direct injection LC-MS/MS method using triple quadrupole technology, and a simplified hydrolysis extraction process, ezHerbicide® enables precise detection of herbicides at low parts-per-billion (ppb) levels in both soil and water.

### LEARN MORE ABOUT PACE®

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Pace® makes the world a safer, healthier place. We partner with clients to provide the service, science, and laboratory data needed to make critical decisions that benefit us all. Through a nationwide laboratory network, Pace® advances the science of businesses, industries, consulting firms, government agencies, and others. More at [PACELABS.com](https://www.pacelabs.com).