



ezHerbicide®

Patented technology for faster, more accurate, and environmentally conscious herbicide residue testing and analysis.

Pace® Analytical ezHerbicide® lab service takes testing for herbicide residue to new levels of innovation. This patented technology and process provides higher quality data results.

Most labs conducting herbicide residue analysis do so using an Electron Capture Detector (ECD). While Pace® utilizes this method in certain cases too, the R&D team at Pace® has developed ezHerbicide® to improve upon this method. ezHerbicide® is a less wasteful and more efficient residue analysis process using LC-MS/MS with EPA Method 8321b as a guideline.

The Electron Capture Detector (ECD) process is more labor-intensive and generates large amounts of waste in addition to exhibiting erratic recoveries of targets. This extraction method also uses harmful solvents such as ether and diazomethane, which counterintuitively poses 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.

Current

Electron Capture Detector (ECD) Analysis

6-hour prep time
Labor intensive



More containers
Requires two 1-Liter glass jars



More waste
Generates large amounts of environmentally harmful solvent waste



Lower quality data
Exhibits erratic recoveries of targets



2-day turnaround time



NEW

ezHerbicide® LC-MS/MS-Based Analysis



30-min prep time
Eliminates time-consuming test prep



Fewer containers
Two 40-mL vials



Less solvents needed
Less waste



Higher Quality Data
Better chemistry and instrumentation



1-day turnaround
Same-day available

= Better Science.

It all adds up.

BETTER CHEMISTRY. HIGHER DATA QUALITY.

More highly developed instrumentation combined with better chemistry equals better science. Analysis using ezHerbicide® produces a higher quality of analytical results in less time. Time is saved by eliminating the labor-intensive laboratory prep work required by older technology and replacing it with a direct injection LC-MS/MS method using triple quadrupole technology coupled with a simplified hydrolysis extraction process developed for lower parts-per-billion (ppb) detection of herbicides in both soil and water.



ezHerbicide® can provide results up to 50% faster

FASTER RESULTS.

Pace® ezHerbicide® service is based on reduced volume technology, requiring fewer samples for testing and analysis. This, along with eliminating the need for time-consuming lab preparation work, means ezHerbicide® can provide results up to 50% faster than other labs, and in many cases, within the same day. And, ezHerbicide® clients have near real-time access to test results through Pace® Analytical online data reporting software.

ezHerbicide® is an example of how Pace® Analytical Services continually invests in its infrastructure, processes, and technologies to improve results for its clients. Delivering Science Better.

If you have questions or would like to learn more about ezHerbicide®, please contact us.

Additional information is also available at [PACELABS.COM](https://www.pacelabs.com).



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).

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