

Patent-pending 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 patent-pending technology and process provides higher quality data results – faster.

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		NEW!	
Electron Capture Detector (ECD) Analysis		ezHerbicide™	LC-MS/MS-Based Analysis
6-hour prep time <small>Labor intensive</small>			30-min prep time <small>Eliminates time-consuming test prep</small>
		+	
More containers <small>Requires two 1-Liter glass jars</small>			Fewer containers <small>Two 40-mL vials</small>
		+	
More waste <small>Generates large amounts of environmentally harmful solvent waste</small>			Less solvents needed <small>Less waste</small>
		+	
Lower quality data <small>Exhibits erratic recoveries of targets</small>			Higher Quality Data <small>Better chemistry and instrumentation</small>
		+	
2-day turnaround time			1-day turnaround <small>Same-day available</small>
		=	
		Better Science.	
		It all adds up.	



ezHerbicide™

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.

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.



ezHerbicide™ can provide results up to 50% faster

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Pace Analytical® Services, LLC makes the world a safer, healthier place. For decades, we have been the trusted source for quality environmental and life sciences lab testing and analysis and the resource for scientific lab staffing services. Our work is done in partnership with our clients by providing the science and the data they need to make critical decisions that benefit us all. Pace delivers science better to businesses, industries, consulting firms, government agencies and more through the largest, American-owned and nationally certified laboratory network. More at PACELABS.com