



Milestone's UltraWAVE Allows Polymer Analysis Lab to Tackle Difficult Samples for Elemental Analysis



Customer Jordi Labs is a leader in polymer analysis, serving a wide variety of industries including pharmaceutical, chemical and medical devices. For over 30 years, Jordi Labs has provided extensive and specialized analytical testing of polymers, additives, pharmaceutical products, and more.



Challenge Our laboratory required a microwave system which could tackle the toughest polymers and samples we encounter, allowing us to provide our customers with the highest quality analytical data.

Solution With the acquisition of the UltraWAVE, we can consistently, safely and efficiently digest the toughest polymers for elemental analysis. Our workload typically involves digestion of various sample types. The UltraWAVE's ability to digest different samples simultaneously, without cross-contamination, saves us a great deal of time and allows us to keep up with our throughput demands. Recoveries of volatile elements on the UltraWAVE is excellent, ensuring we can deliver superior elemental analysis for customers.

Background

Jordi Labs was founded in 1980 to provide the highest quality analytical services in the industry. Their services include polymer analysis, extractables & leachables studies, particulate identification, and a variety of investigative analyses to solve a broad range of problems. Jordi Labs is a highly collaborative environment where expert analytical chemists work together to solve challenging problems. Their goal is to truly understand the reason behind an analysis and always answer the underlying "why" question. Integrity, innovation and teamwork are a few of the core values that define them.

Instrumentation

Each year, we provide more than 1,000 analyses and offer expertise in more than 60 analytical techniques. We have over a dozen chromatography and mass spectrometry instruments, ranging from QTOF-GCMS and LCMS to ICP-MS. At the heart of our elemental analysis is our Agilent 7900 ICP-MS equipped with He and H₂ collision reaction cells, ultra-high matrix introduction system (UHMI) and SPS 4 autosampler. Together with our Milestone UltraWAVE and traceCLEAN acid steam cleaning system, we have the capability to tackle the most difficult samples while reaching detection limits in the parts per trillion (ppt) range.

"Elemental analysis of polymer systems is frequently inconclusive or erroneous if the sample is not completely digested."

- Dr. Mark Jordi, President





The UltraWAVE

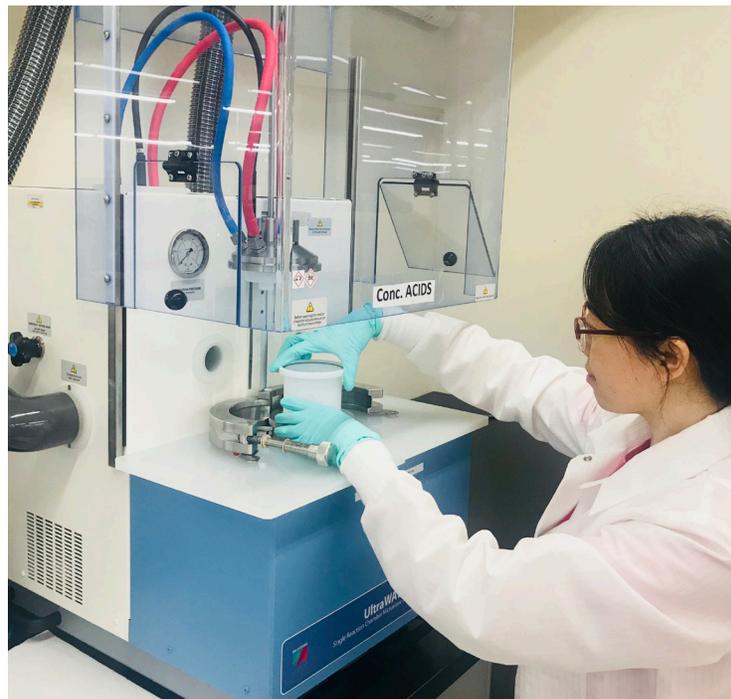
We were impressed by the quality and efficiency of the UltraWAVE from the beginning. In our search for a microwave system, we were looking for a versatile instrument which could accommodate the broadest range of applications and digest the most difficult samples we encounter. The UltraWAVE does just this, and more. We especially liked the fact that the UltraWAVE allows for digestion of different samples simultaneously. This not only simplifies method development, but allows us to meet our throughput demands. Difficult samples such as polymers and greases are easily digested with the UltraWAVE, yielding clear and colorless solutions and superior trace metals analysis down to ppt levels.

"We especially liked the fact that the UltraWAVE allows for analysis of different samples simultaneously without cross contamination, increases throughput, reduces method development and works for volatile elements."

- Dr. James Woods, Sr. Research Scientist

Future Plans

Jordi Labs strives to be the premier polymer analysis laboratory in the country. In pursuit of this vision, we are currently working towards cGMP compliance, which we expect to complete this year. We are continually looking for better ways to serve our clients, which often means new technology. This year we're adding GC-QQQ and the latest Agilent GC-QToF, equipped with soft ionization, to our portfolio of instrumentation.



"We felt the UltraWAVE was the most versatile system in the market"

- Dr. James Woods, Sr. Research Scientist

About Milestone

With over 50 patents and more than 20,000 instruments installed in laboratories around the world, Milestone has been widely recognized as the global leader in metals prep technology for the past 28 years. Committed to providing safe, reliable and flexible platforms to enhance your lab's productivity, customers worldwide look to Milestone for their metals digestion, organic extractions, mercury analysis and clean chemistry processing needs.

Learn more or request an onsite demonstration: visit milestonesci.com or call 866-995-5100

