



| Mixed-Batch Food Sample Microwave Digestion

Utilizing Single Reaction Chamber (SRC) Technology for Trace Metals Analysis for various food matrices simultaneously.

With stricter food industry regulations now in place, demand for trace metals analysis at lower detection levels is a fundamental task today. ICP, once the standard for food metals analysis, is rapidly being replaced by ICP-MS, placing increased emphasis on sample preparation methodologies. Closed-vessel microwave digestion has proven to be an effective technique, offering fast, complete digestions, a clean environment, and effective recovery of volatile compounds. Drawbacks have been the limitations in running digestion on several matrix types simultaneously, the handling time and the maximum sample amount.

Milestone's SRC microwave digestion, is a revolutionary new approach, incorporating all of the benefits of closed vessel microwave digestion with new levels of convenience and effectiveness. The Milestone ultraWAVE is a bench-top instrument that operates at very high pressures and temperatures, capable of processing large, dissimilar and difficult samples quickly, easily—all without batching.

The data shown in the Milestone Technical Note demonstrates that the digestion of samples in the ultraWAVE results in uniformly high analytical data quality, making it the ideal solution for trace metals detection in food.

Read the Technical Note: <https://www.milestonesrl.com/resources/application-reports>

