

BLADE

Microwave Digestion System

Automated microwave digestion for routine to extreme sample types.





BLADE™ delivers advanced performance and redefines what's possible in sample preparation. Effortlessly mix and match sample types or acid combinations, watch digestions unfold in real-time, and automatically generate individual reports for full traceability and peace of mind. From streamlining workflows to delivering consistent, high-quality results, BLADE transforms your lab with smarter, faster digestions. It brings the future of microwave digestion to your lab.

Speed

Digest samples in minutes. A unique combination of advanced vortexing and the highest watt-density work in tandem to deliver clear digestions in a fraction of the time of traditional microwave digestion systems. The integrated cooling system brings the vessel temperature to safe release conditions rapidly while automation ensures each sample is processed quickly and efficiently, with no down time. Sample queue interruption allows the user to prioritize rush samples, even if the queue has already started.

Simplicity

Prepare vessels in seconds. Preparing a sample is simple with the single vessel option. Place the sample, stir bar, and acid into the BLADE vessel and snap on a cap. It's as easy as that. Place the vessel in the autosampler, select the method, and press play. The system takes care of the rest. Watch your digestion in action using the onboard camera. See the system status from across the room using the Visual Light Indicator (VLI). Powerful enough to handle anything, yet incredibly simple to use.

Flexibility

Sample prep that works with your workflow. Improve your lab's workflow with barcode scanning and follow your sample from balance to analysis. BLADE is the only microwave digestion system that automatically loads and unloads vessels from the cavity and provides CFR compliant documentation for every sample. The continuous-sequential automation means uninterrupted sample processing and more instrument uptime.

Performance

Digest any sample with ease. From routine to extreme, the BLADE can digest it all. Mix and match samples and acids, including HNO_3 , HCl , and HF , in one batch using individual methods. Even watch your digestion in real-time with the high definition built in camera. The BLADE revolutionized microwave digestion with the Single Mode Cavity™ (SRC) technology, delivering optimized microwave power directly into each sample as it is being digested. The result? A faster, safer, and more complete digestion every time.



Learn more at cem.com/blade