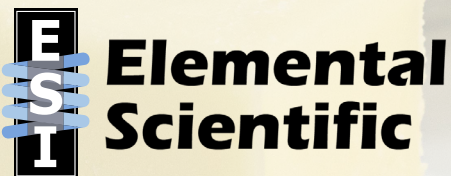
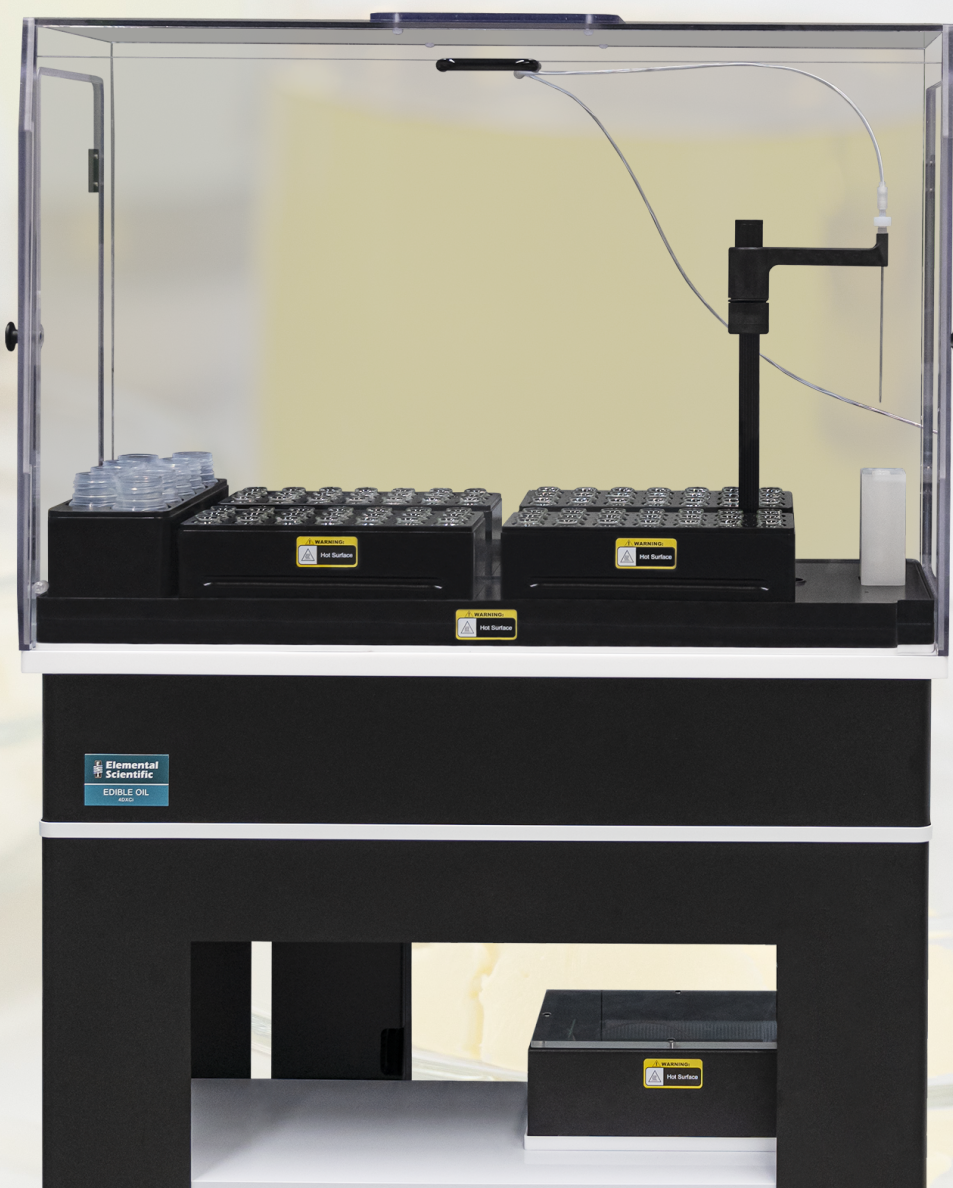




EdibleOil ICP

Heated & Fully Automated Sample Introduction System for Metals Analysis



The Missing Ingredient to Edible Oil Analysis.



Time & Cost Savings

- Full multi-element analysis with little sample preparation
- Automatically melt & analyze a variety of sample types
- Free up scientists for more important tasks



Fully Heated Flow Path

- Heats from sample deck to waste line
- Reduces sample viscosity
- Eliminates clogged lines from semiliquid and solid samples



Improved Results

- Improved detection limits by reducing dilution
- Greater stability & accuracy when analyzing sample types
- Excellent reproducibility

Discover what EdibleOil ICP
can do for you



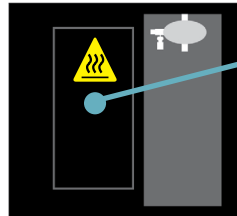
Key Features

EdibleOil ICP



Heated Features

- Ensures liquidity of sample
- Heats from sample deck to waste line



Heated Sample Introduction Module

- Sampling valve, peripump, spray chamber, and nebulizer are enclosed in heated chamber to maintain sample viscosity
- Faster sample throughput and improved washout

Heated Transfer Line

- Heats sample during uptake to ensure liquidity and stability

Stainless Steel Probe

- Prevents particulates with micro-screen

Heated Sample Area

- Graphite deck and sample racks are temperature controlled
- Reduces sample viscosity and eliminates clogged lines

Heated Waste Line

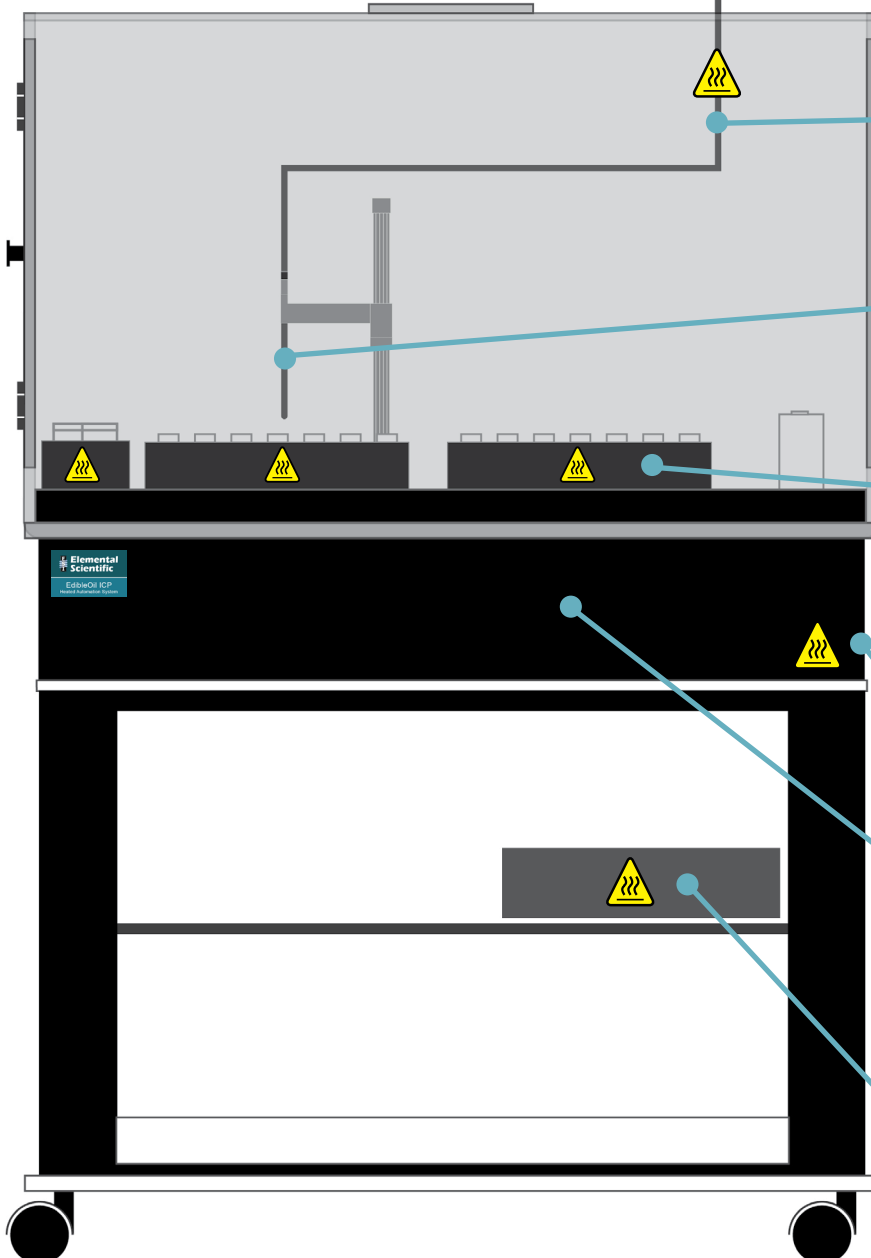
- Heats waste to container

DXCi Autosampler

- Autocorrects autosampler positioning
- Automatically retries and reports an unmoved obstacle

Heated Solutions

- Heats rinse and carrier solution
- Increases washout and improves stability

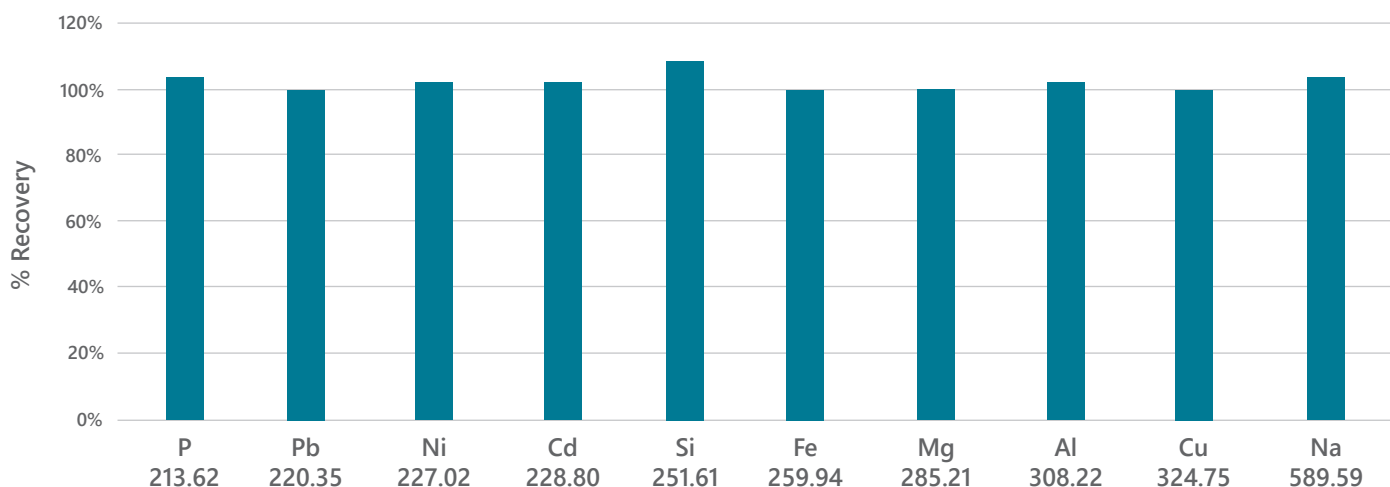


EdibleOil ICP

A Better Way to Analyze

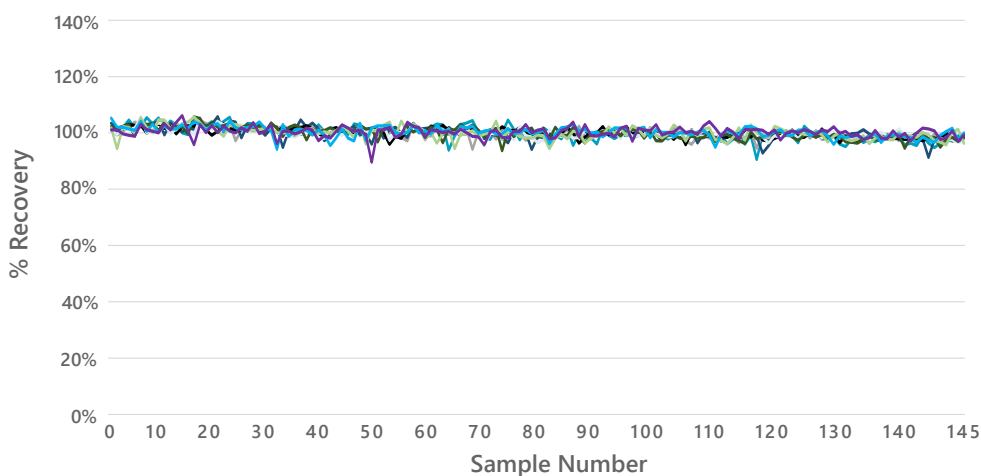
Accuracy

EdibleOil ICP automates tedious manual labor and produces quality results for all kinds of edible oils and fats. The graph below shows ICP recovery of spiked sunflower oil samples prepared with a 7 ppm spike for all elements analyzed. Recovery for all elements ranged between 95% - 105%.



Stability

EdibleOil ICP's heating features prevent oils and fats from solidifying during analysis. Without sample path heating, palm stearin solidifies in seconds. The following stability data was collected over 11 hours using a solid palm stearin sample that was prepared by 1:1 dilution with V-Solv™ ICP Solvent containing 20 ppm Y. A 7 ppm spike was added to the sample for all ten elements in the table (right). The average %RSD for all 145 samples was 2.07%.



Analyte	% RSD
P 214	2.57%
Pb 220	2.01%
Ni 227	2.22%
Cd 229	1.74%
Si 252	1.80%
Fe 260	2.19%
Mg 285	2.21%
Al 308	1.93%
Cu 325	1.95%
Average	2.07%