



“Big Four” Heavy Metals Testing of Food, Beverages & Dietary Supplements

As people become ever more demanding about the quality of the food, beverages, and dietary supplements they purchase and consume every day, the presence of heavy metals in products (even at very low levels) has become a matter of growing concern.

Many natural ingredients accumulate small amounts of heavy metals from the environment (i.e., the soil and water), but determining exactly how much of a specific metal is in a product requires extremely sensitive analytical techniques. Perhaps even more importantly, since natural levels can often be in the low parts-per-billion range, laboratories that are not experienced with the proper analytical methods can easily contaminate samples.

At Brooks Applied Labs, we specialize in testing for heavy metals and trace elements at ultra-low-levels for the environmental, energy, pharmaceutical, and food industries. Our laboratories, instruments, methods, and staff are all strictly committed to providing the most precise and accurate data for heavy metals available.

Using the latest in microwave digestion and ICP-MS technologies (including the use of reaction cell technology for interference reduction), we provide heavy metals testing services to companies that manufacture, distribute, and retail a variety of consumer products. Our ultra-sensitive analytical method, authored by Brooks Applied Labs chemists, was recently accepted as the current Official AOAC First Action Method for Heavy Metals in Food, Beverages, and Dietary Supplements (AOAC Method 2015.01). Brooks Applied Labs maintains the internationally-recognized ISO 17025 accreditation for the analysis of metals in food.

Heavy Metal	Typical Limit of Quantification
Arsenic	10 ppb
Cadmium	10 ppb
Lead	10 ppb
Mercury	10 ppb



In addition to the “Big 4”, Brooks Applied Lab can accurately quantify nearly every element on the periodic table at low levels in food, in addition to performing speciation analyses for many metals/metalloids, such as arsenic, mercury, chromium, and selenium.

*Meaningful Metals Data &
Advanced Speciation Solutions*



Since 1982, Brooks Applied Labs has been at the forefront in providing cutting-edge analytical services for the analysis of metals/metalloids and metals speciation at ultra-low concentrations.

Our dedication to continuous research and development into the most advanced analytical methods and technologies makes us a worldwide leader in analytical chemistry related to metals.

With an emphasis on resolving the challenges associated with analyzing even the most complex sample types, our specialized laboratory and techniques are sought after by agricultural, industrial, academic, and government researchers around the globe.

In addition to being capable of accurately quantifying nearly every element on the periodic table at parts-per-trillion and even parts-per-quadrillion concentrations, Brooks Applied Labs is one of the world's leading commercial laboratories that routinely offers metals speciation analyses, such as for inorganic arsenic, hexavalent chromium, or methylmercury.

To learn more about how our highly specialized testing services can help you with your projects, contact us today!



For more information, please visit our website at www.brooksapplied.com or call 206-632-6206.

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