



Testing for Elemental Contaminants in Dietary Supplements by USP <2232>

The United States Pharmacopeial Convention (USP) is currently revising its standards for elemental impurities in the interest of better protecting public health. The revisions focus on two areas:

- 1) updating the methodology used to test for elemental impurities in dietary supplements to include procedures that rely on modern analytical technology, and
- 2) establishing limits for acceptable levels of elemental impurities, including arsenic, cadmium, lead, and mercury, in dietary supplements.

USP <2232> provides proposed limits for elemental metal contaminants in dietary supplements and dietary ingredients. Limits for individual components and permissible daily exposure (PDE) are provided for arsenic (inorganic), cadmium, lead, and mercury (methylmercury).

Tests for inorganic arsenic and methylmercury are required if the levels of total arsenic or total mercury are in excess of the proposed new acceptable PDE limits.

Brooks Applied Labs offers specialized testing services to establish that dietary supplements are compliant with these new standards for elemental impurities and metals speciation analyses when necessary. Contact us today to learn more about how our testing services can certify your products to be low in heavy metals and compliant with USP <2232>.

*Meaningful Metals Data &
Advanced Speciation Solutions*



Since 1982, Brooks Applied Labs has been at the forefront in providing cutting-edge analytical services for the testing of heavy metals at ultra-low levels.

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

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 detecting elemental metals (e.g., arsenic, cadmium, chromium, lead, and mercury, etc.) at parts-per-trillion and even parts-per-quadrillion concentrations, we are one of the only 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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