



The TME saliva and urine panels test for the following metals and elements:

- Aluminum
- Antimony
- Arsenic
- Barium
- Beryllium
- Cadmium
- Calcium
- Cesium
- Chromium
- Cobalt
- Copper
- Gadolinium
- Iron
- Lead
- Lithium
- Magnesium
- Manganese
- Mercury
- Molybdenum
- Nickel
- Palladium
- Phosphorous\*
- Platinum
- Rubidium
- Selenium
- Silver
- Strontium
- Thallium
- Thorium
- Tin
- Titanium
- Tungsten
- Uranium
- Vanadium
- Zinc
- Zirconium\*

\* only available in saliva test.

## Toxic Metal Assessment

Salivary and urinary analyses after use of a chelating agent can be useful for assessing potential body burden. These analyses can also be used to assess the efficacy of detoxification therapies. The tests can be used individually or in combination.



## Major Accreditation



DiagnosTechs maintains superior test quality and accuracy with a stringent daily QA program and is registered with CLIA, licensed by the Washington State Department of Health, and accredited by the Joint Commission.

## Licensure and Proficiencies

Also accredited and licensed by the State of Washington (License No. MTS-0327), subject to the Clinical Laboratory Improvement Act of 2003 (CLIA-2003) certification. Our Federal CLIA No. is 50D0630141. External proficiency testing obtained from the College of American Pathologists, American Proficiency Institute and American Association of BioAnalysts.



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TME

Toxic Metals & Elements Panel



The DiagnosTechs **Toxic Metals and Elements Panels (TME)** use accurate, noninvasive salivary and urinary testing to measure 36 different metals and elements to assess potentially harmful levels of toxic metals and other elements that can accumulate over time. DiagnosTechs is the only laboratory in the nation to offer a first-ever salivary test to assess toxic metal exposure.

While your patients need small amounts of certain elements, elevated levels of specific metals and elements can reach toxic levels. Lead, mercury, arsenic and cadmium can be toxic at any level. Dangerous levels of these metals and elements can accumulate in the body from environmental and ordinary household sources as diverse as steel manufacturing, house painting, in the lining of canned goods, pesticides, soil contamination, and silver amalgam dental fillings.



Our Tandem Mass Spectrometer (ICP-MS/MS) gives DiagnosTechs the ability to perform elemental analysis in clinical specimens with unparalleled accuracy, precision, and detection. Salivary/Urinary elemental analysis is intended to give you a test to evaluate exposure to and potential impact of toxic metals, as well as deficient or higher than range levels of essential and trace elements.

## Why is it important to test levels of potentially toxic metals and other elements?

- Metals can enter the body through the skin, by inhalation or ingestion.
- Toxicity can result from sudden, severe exposure, or from chronic exposure over time.
- Symptoms can vary depending on the metal involved, the amount absorbed, and the age of the person exposed. For example, young children can be more susceptible to the effects of lead exposure than their adult counterparts.
- Patients who experience health symptoms due to toxicity can work with you to create treatment plans to help eliminate toxins and improve their quality of life.
- Modifications to environment and lifestyle can remove exposures that may be contributing to the overall toxic body burden.



## Our Toxic Metals and Elements Panels can be helpful for evaluating patients who are experiencing the following unexplained signs and symptoms:

- Joint and musculoskeletal pain
- Chronic fatigue
- Metabolic disorders (e.g. diabetes) and difficulty losing weight
- Abdominal pain, nausea, vomiting, and diarrhea (hallmark symptoms with most cases of acute metal exposure)
- Anemia (a classic sign of chronic metal exposure)
- Cognitive dysfunction such as memory loss, Parkinson's Disease and "brain fog"
- Neurodegenerative diseases, such as amyotrophic lateral sclerosis (ALS) or Lou Gehrig's disease
- Heart abnormalities such as cardiomyopathy or abnormal heart beat (dysrhythmia)
- Nervous system symptoms (e.g. numbness, tingling of hands and feet, and weakness)
- Skin disorders such as eczema and/or psoriasis
- Autoimmune diseases, including rheumatoid arthritis
- Hypertension
- Renal disease
- Liver disease