



5151 CORPORATE WAY
JUPITER, FL 33458-3101
(866)720-8386

Route#: 0

Page#: 1

| | | | | | |
|---|--|--|--|-------------------|--------|
| Client: VITALITY DETOX DROPS 17434 SPIRIT LN SE YELM, WA 98597 | 21208 | Patient: [REDACTED] | DOB: [REDACTED] | Age: 66 | Sex: F |
| Phys: [REDACTED] | (860) 603-3869 | Chart#: [REDACTED] | Room#: [REDACTED] | | |
| Access#: 001504955 | Coll. Date: 09/14/18 Coll. Time: 04:28 PM | Recv. Date: 09/17/18 Recv. Time: 13:55:14 | First Report on: 09/17/18 Final Report on: 09/17/18 Print Date: 10/10/18 | Print Time: 12:06 | |

Report Status: FINAL

SPECIMEN INFO: TIMED URINE

Creatinine, Urine **106 mg/dL**

TOXIC METALS, POST-PROVOC

| Test Name | Results | Range | Units | Graph |
|-------------------|----------------|----------|-------|-------|
| Aluminum, Urine | < dL | < 30 | ug/g | |
| Antimony, Urine | 0.3 | 0 - 0.9 | ug/g | |
| Arsenic, Urine | 116.8 H | 0 - 100 | ug/g | |
| Barium, Urine | 3.5 | 0 - 6 | ug/g | |
| Bismuth, Urine | < dL | 0 - 10 | ug/g | |
| Cadmium, Urine | 0.5 | 0 - 2 | ug/g | |
| Cesium, Urine | 4.4 | 0 - 12 | ug/g | |
| Gadolinium, Urine | < dL | 0 - 0.9 | ug/g | |
| Germanium, Urine | 0.1 | 0 - 2 | ug/g | |
| Lead, Urine | 0.4 | 0 - 10 | ug/g | |
| Mercury, Urine | 2.6 | 0 - 10 | ug/g | |
| Nickel, Urine | 3.8 | 0 - 7 | ug/g | |
| Niobium, Urine | < dL | 0 - 1.0 | ug/g | |
| Platinum, Urine | 0.1 | 0 - 1 | ug/g | |
| Rubidium, Urine | 704.6 | 0 - 4000 | ug/g | |
| Thallium, Urine | 0.2 | 0 - 0.7 | ug/g | |
| Thorium, Urine | < dL | 0 - 0.1 | ug/g | |
| Tin, Urine | 0.6 | 0 - 10 | ug/g | |
| Titanium, Urine | 8.2 H | 0 - 6 | ug/g | |
| Tungsten, Urine | < dL | 0 - 1.0 | ug/g | |
| Uranium, Urine | < dL | 0 - 0.05 | ug/g | |

<dL = less than detectable limit

| Results | Units | Reference Range | Results are creatinine corrected to account for urine dilution variations. Reference intervals and corresponding graphs are representative of a healthy population under non-provoked conditions. Chelation (provocation) agents can increase urinary excretion of metals/elements. |
|-------------------|-------|-----------------|---|
| Creatinine, Urine | 106 | mg/dL | 20-320 |

Comments:



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Abnormal Result Summary:

1. Arsenic: Exposure to organic sources of arsenic (AS), such as seafood, occurs naturally and will often cause a temporary elevation in one’s urine toxicology that usually reverts to normal levels within 24 hours. However harmful inorganic sources of arsenic will cause an abnormal elevation in urine that lasts for multiple days. Because of this, urine toxicology readings are conducted over a 24-hour period to determine the presence of toxic levels of arsenic within the body.

A typical cause of excessive arsenic intake is the consumption of ground water that has been polluted by the leaching of geological formations. Ground water is a prime source of drinking water in the United States, especially in rural areas, and rock that erodes arsenic into these below ground water sources reach a significant population. When consumed, the food farmed from these arsenic contaminated water sources act as another leading cause of arsenic exposure. Agricultural fertilizers and pesticides have also shown themselves to be a notable contributor of arsenic through contact and inhalation, with cigarette smoking proving to be one of the most common and severe sources of elevated arsenic levels throughout the body.

High arsenic exposure is often followed by multiple symptoms, including but not limited to nausea, headaches, fever, vomiting, diarrhea, abdominal pain, hypotension, seizures, and multiple types of cancer. Complications within the respiratory and nervous systems, and the development of skin lesions, will often accompany arsenic poisoning as well. As arsenic is predominately excreted through urine, any suspected instances of excessive arsenic exposure can be determined by a urine toxicology test. means for detecting antimony exposure.

2. Titanium: Titanium (Ti) is a non-toxic metal that does not exhibit any bioavailable properties, generally passing through the body without affecting any of its systems.

Titanium alloys are regularly applied throughout the medical field in the creation of hip and knee replacements, bone plates, and pacemakers due to titanium’s durable performance, relatively light weight, and non-toxic biomedical qualities. These alloys are also used in a wide range of commercial applications, including the manufacturing of certain consumer electronics and automobiles. Additionally, some titanium compounds, like titanium dioxide, are used to create paints, food colorings, sunscreens, and other cosmetics.

As a non-poisonous metal, titanium is innocuous when inside the body, with humans able to endure large doses of exposure. Harmless as it is in its natural state, excessive contact with processed titanium powder can have a multitude of adverse effects. If such powders are inhaled they may cause an onset of painful tightening of the chest and labored breathing, with direct exposure to the skin or eyes resulting in immediate irritation.

If testing for titanium exposure, samples of a patient’s urine, blood, and feces can be used to detect its presence. However, as natural titanium has no known harmful effects, such testing is seldom required.