

# URINE TOXIC METALS



The Great Plains Laboratory, Inc.

William Shaw, Ph.D. Director

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LAB#:  
PATIENT:  
ID:  
SEX:  
AGE:

## POTENTIALLY TOXIC METALS

| METALS    | RESULT<br>µg/g CREAT | REFERENCE<br>RANGE | WITHIN<br>REFERENCE RANGE | ELEVATED | VERY<br>ELEVATED |
|-----------|----------------------|--------------------|---------------------------|----------|------------------|
| Aluminum  | 930                  | < 60               |                           |          |                  |
| Antimony  | 0.7                  | < 1.5              |                           |          |                  |
| Arsenic   | 43                   | < 130              |                           |          |                  |
| Beryllium | < dl                 | < 0.6              |                           |          |                  |
| Bismuth   | < dl                 | < 20               |                           |          |                  |
| Cadmium   | 2.5                  | < 2                |                           |          |                  |
| Lead      | 21                   | < 5                |                           |          |                  |
| Mercury   | 2.6                  | < 5                |                           |          |                  |
| Nickel    | 170                  | < 15               |                           |          |                  |
| Platinum  | < dl                 | < 1                |                           |          |                  |
| Thallium  | 0.8                  | < 1.1              |                           |          |                  |
| Thorium   | 0.1                  | < 0.5              |                           |          |                  |
| Tin       | 15                   | < 15               |                           |          |                  |
| Tungsten  | 0.2                  | < 1.5              |                           |          |                  |
| Uranium   | 0.8                  | < 0.2              |                           |          |                  |

## CREATININE

|            | RESULT<br>mg/dL | REFERENCE<br>RANGE | 2SD LOW | 1SD LOW | MEAN | 1SD HIGH | 2SD HIGH |
|------------|-----------------|--------------------|---------|---------|------|----------|----------|
| Creatinine | 46              | 25- 180            |         |         |      |          |          |

## SPECIMEN DATA

Comments:

Date Collected:

Method:

Collection Period:

Date Received:

<dl:

Volume:

Date Completed:

Provoking Agent:

Provocation:

Toxic metals are reported as µg/g creatinine to account for urine dilution variations. **Reference ranges are representative of a healthy population under non-challenge or non-provoked conditions.** No safe reference levels for toxic metals have been established.

V10.00

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# URINE ESSENTIAL ELEMENTS



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## ESSENTIAL ELEMENTS

| ELEMENTS   | RESULT<br>µg/mg CREAT | REFERENCE<br>RANGE | PERCENTILE                        |                  |                  |                  |                    |
|------------|-----------------------|--------------------|-----------------------------------|------------------|------------------|------------------|--------------------|
|            |                       |                    | 2.5 <sup>th</sup>                 | 16 <sup>th</sup> | 50 <sup>th</sup> | 84 <sup>th</sup> | 97.5 <sup>th</sup> |
| Sodium     | 9000                  | 1000- 8000         |                                   |                  |                  |                  |                    |
| Potassium  | 6820                  | 1000- 7000         |                                   |                  |                  |                  |                    |
| Phosphorus | 780                   | 350- 1700          |                                   |                  |                  |                  |                    |
| Calcium    | 3810                  | 45- 300            |                                   |                  |                  |                  |                    |
| Magnesium  | 440                   | 40- 300            |                                   |                  |                  |                  |                    |
| Zinc       | 110                   | 0.15- 2.5          |                                   |                  |                  |                  |                    |
| Copper     | 1                     | 0.012- 0.12        |                                   |                  |                  |                  |                    |
| Sulfur     | 2860                  | 280- 1800          |                                   |                  |                  |                  |                    |
| Manganese  | 0.83                  | 0.0005- 0.02       |                                   |                  |                  |                  |                    |
| Molybdenum | 0.31                  | 0.02- 0.25         |                                   |                  |                  |                  |                    |
| Boron      | 13                    | 0.8- 7             |                                   |                  |                  |                  |                    |
| Chromium   | 0.15                  | 0.02- 0.24         |                                   |                  |                  |                  |                    |
| Lithium    | 0.053                 | 0.008- 0.25        |                                   |                  |                  |                  |                    |
| Selenium   | 0.4                   | 0.05- 0.4          |                                   |                  |                  |                  |                    |
| Strontium  | 0.66                  | 0.06- 0.4          |                                   |                  |                  |                  |                    |
| Vanadium   | 0.04                  | 0.005- 0.07        |                                   |                  |                  |                  |                    |
|            |                       |                    | 68 <sup>th</sup> 95 <sup>th</sup> |                  |                  |                  |                    |
| Barium     | 0.022                 | < 0.02             |                                   |                  |                  |                  |                    |
| Cobalt     | 0.01                  | < 0.03             |                                   |                  |                  |                  |                    |
| Iron       | 2.1                   | < 0.6              |                                   |                  |                  |                  |                    |
| Zirconium  | 0.003                 | < 0.008            |                                   |                  |                  |                  |                    |

## CREATININE

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Essential elements are reported as µg/mg creatinine to account for urine dilution variations. **Reference ranges are representative of a healthy population under non-challenge or non-provoked conditions.** Detoxification therapies can cause significant elevations of certain essential element levels (e.g. Cu, Zn).

V07.02

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