

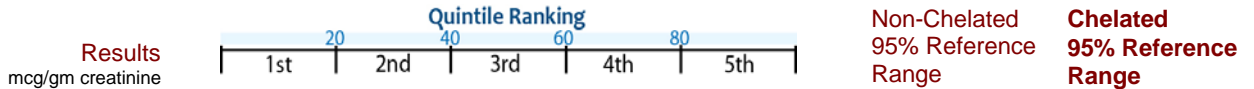
Ordering Physician:
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Duluth, GA 30096



0052 Nutrient & Toxic Elements - 6-8 Hour Urine - Chelated

Methodology: Gas Chromatography/Mass Spectrometry

Chelating Agent: EDTA



Toxic Elements

1. Aluminum	11.5		<= 10.0	<= 61.0
2. Arsenic	9		<= 136	<= 160
3. Cadmium	3.2		<= 0.77	<= 3.28
4. Lead	5.1		<= 2.7	<= 30.0
5. Mercury	31.4 H		<= 3.2	<= 29.7
6. Thallium	0.16		<= 0.83	<= 1.04

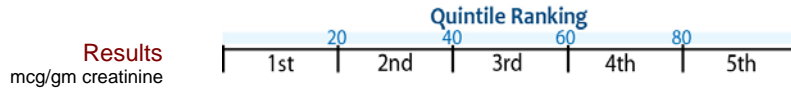
Potentially Toxic and Rare Earth Elements

7. Antimony	<DL		<= 0.21	<= 0.55
8. Barium	0.4		<= 11.9	<= 24.3
9. Bismuth	0.03		<= 0.71	<= 2.50
10. Cerium*	<DL		<= 0.11	<= 0.31
11. Cesium	5.6		<= 11.9	<= 15.7
12. Europium*	<DL		<= 0.006	<= 0.025
13. Holmium*	<DL		<= 0.003	<= 0.050
14. Indium	<DL		<= 0.028	<= 0.034
15. Niobium	<DL		<= 0.055	<= 0.031
16. Palladium	<DL		<= 0.32	<= 0.94
17. Platinum	<DL		<= 1.0	<= 2.7

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Non-Chelated 95% Reference Range
Chelated 95% Reference Range

Potentially Toxic and Rare Earth Elements

Element	Results mcg/gm creatinine	Quintile Ranking	Non-Chelated 95% Reference Range	Chelated 95% Reference Range
18. Rubidium**	0.99	~25	<= 3.18	<= 4.62
19. Samarium*	<DL	<1st	<= 0.02	<= 0.08
20. Tantalum	<DL	<1st	<= 0.05	<= 0.01
21. Tellurium	<DL	<1st	<= 0.77	<= 0.86
22. Terbium*	<DL	<1st	<= 0.01	<= 0.02
23. Thorium	<DL	<1st	<= 0.02	<= 0.02
24. Thulium*	<DL	<1st	<= 0.006	<= 0.021
25. Tin	0.9	~85	<= 6.3	<= 12.6
26. Tungsten	0.01	~25	<= 0.55	<= 0.45
27. Uranium	<DL	<1st	<= 0.027	<= 0.118
28. Zirconium	<DL	<1st	<= 0.50	<= 0.50

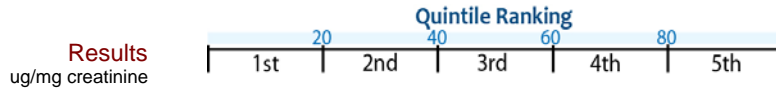
Nutrient Elements

Element	Results	Quintile Ranking	Non-Chelated 95% Reference Range	Chelated 95% Reference Range
29. Calcium**	81	77	7-489	12-559
30. Chromium	0.19	0.05	0.05-1.33	0.05-1.54
31. Cobalt	0.35	0.26	0.08-1.71	0.13-16.91
32. Copper	55	13.7	2.2-23.3	4.0-167.6
33. Magnesium**	19 L	48	6-252	9-330
34. Manganese	0.87	>80	<= 2.39	<= 47.44
35. Molybdenum	25	23	8-192	3-128
36. Selenium	15 L	35	5-156	2-232
37. Zinc	567	307	76-1582	95-24898

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Non-Chelated
95% Reference
Range

Chelated
95% Reference
Range

Elements of Uncertain Human Requirement

Element	Results ug/mg creatinine	Quintile Ranking	Non-Chelated 95% Reference Range	Chelated 95% Reference Range
38. Boron**	0.2 L	0.4 (1st), 4.6 (5th)	0.1-5.4	0.1-6.7
39. Lithium	14	12 (1st), 73 (5th)	6-157	2-231
40. Nickel	1.9	1.2 (1st), 5.3 (5th)	0.4-7.2	0.1-8.1
41. Strontium	85	63 (1st), 263 (5th)	19-433	12-683
42. Vanadium	1.71 H	0.4 (5th)	<= 0.61	<= 1.25

Creatinine = 210 mg/dL

<DL = less than detection limit

*Rare Earth Element

**Calcium, magnesium, boron, and rubidium are reported in mcg/mg creatinine.

Chelated ranges were created by pooling samples received from patients that were provoked with DMSA, EDTA, or other chelating agents.