

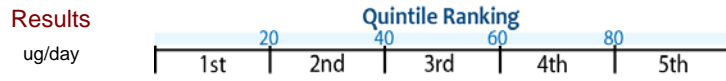
Ordering Physician:
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0158 Toxic Elements - 24 Hour Urine - Chelated

Methodology: Gas Chromatography/Mass Spectrometry

Chelating Agent: Captomer



Non-Chelated
95% Reference
Range

Chelated
95% Reference
Range

Toxic Elements

Element	Result (ug/day)	Quintile Ranking	Non-Chelated 95% Reference Range	Chelated 95% Reference Range
1. Aluminum	<DL	1st	<= 19.8	<= 27.6
2. Arsenic	161 H	5th	<= 156	<= 157
3. Cadmium	0.55	4th	<= 0.75	<= 1.46
4. Lead	13.9	5th	<= 1.19	<= 14.40
5. Mercury	0.23	3rd	<= 1.94	<= 7.82
6. Thallium	0.11	1st	<= 0.61	<= 0.96

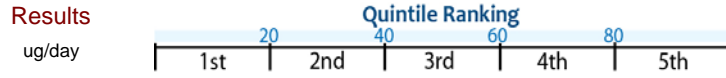
Potentially Toxic and Rare Earth Elements

7. Antimony	<DL	1st	<= 0.26	<= 0.39
8. Barium	0.9	1st	<= 9.0	<= 21.0
9. Bismuth	0.1	4th	<= 0.69	<= 6.49
10. Cerium*	0.03	5th	<= 0.14	<= 0.16
11. Cesium	6.4	3rd	<= 13.4	<= 18.9
12. Europium*	<DL	1st	<= 0.008	<= 0.022
13. Holmium*	<DL	1st	<= 0.008	<= 0.027
14. Indium	<DL	1st	<= 0.020	<= 0.027
15. Niobium	<DL	1st	<= 0.050	<= 0.056
16. Palladium	<DL	1st	<= 0.47	<= 4.47
17. Platinum	<DL	1st	<= 2.7	<= 2.7

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Potentially Toxic and Rare Earth Elements

Element	Result (ug/day)	Quintile Ranking	Non-Chelated 95% Reference Range	Chelated 95% Reference Range
18. Rubidium**	<DL	1st	<= 3.47	<= 4.13
19. Samarium*	<DL	5th	<= 0.03	<= 0.05
20. Tantalum	<DL	5th	<= 0.18	<= 0.20
21. Tellurium	<DL	5th	<= 0.82	<= 1.17
22. Terbium*	<DL	5th	<= 0.01	<= 0.01
23. Thorium	<DL	5th	<= 0.15	<= 0.23
24. Thulium*	<DL	5th	<= 0.006	<= 0.013
25. Tin	<DL	5th	<= 2.9	<= 4.0
26. Tungsten	0.05	2nd	<= 0.58	<= 1.22
27. Uranium	<DL	5th	<= 0.031	<= 0.090
28. Zirconium	<DL	5th	<= 1.40	<= 3.25

Elements of Uncertain Human Requirement

Element	Result	Quintile Ranking	Non-Chelated 95% Reference Range	Chelated 95% Reference Range
29. Boron**	0.9 L	1st	0.1-7.0	0.3-9.5
30. Lithium	12 L	21st	4-114	11-277
31. Nickel	2.1	1.8th	0.1-7.9	1.0-8.6
32. Strontium	65 L	92nd	19-467	68-492
33. Vanadium	3.93 H	0.41st	<= 0.53	<= 1.52

Volume = 987 mL

<DL = less than detection limit

*Rare Earth Element

**Boron and rubidium are reported in mg/day.

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