Metametrix Clinical Laboratory
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Accession #:	**A1106170005**	Date Collected:	06/16/2011
Reference #:		Date Received:	06/17/2011
Patient:	**Sample Report**		
Date of Birth:	02/05/1962	Date of Report:	09/20/2011
Age:	49	Telephone:	(770) 446-4583
Sex:	Female	Fax:	(770) 441-2237
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Reprinted:	11/14/2011		
Comment:			

Ordering Physician:
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Elements
Nutrient & Toxic Metals

0158 Toxic Elements - 24 Hour Urine - Chelated

Methodology: Gas Chromatography/Mass Spectrometry

Chelating Agent:Captomer

	Results ug/day	Quintile Ranking (20 / 40 / 60 / 80; 1st 2nd 3rd 4th 5th)	Non-Chelated 95% Reference Range	**Chelated 95% Reference Range**
Toxic Elements				
1. Aluminum	<DL		<= 19.8	**<= 27.6**
2. Arsenic	161 H		<= 156	**<= 157**
3. Cadmium	0.55		<= 0.75	**<= 1.46**
4. Lead	13.9		<= 1.19	**<= 14.40**
5. Mercury	0.23		<= 1.94	**<= 7.82**
6. Thallium	0.11		<= 0.61	**<= 0.96**
Potentially Toxic and Rare Earth Elements				
7. Antimony	<DL		<= 0.26	**<= 0.39**
8. Barium	0.9		<= 9.0	**<= 21.0**
9. Bismuth	0.1		<= 0.69	**<= 6.49**
10. Cerium*	0.03		<= 0.14	**<= 0.16**
11. Cesium	6.4		<= 13.4	**<= 18.9**
12. Europium*	<DL		<= 0.008	**<= 0.022**
13. Holmium*	<DL		<= 0.008	**<= 0.027**
14. Indium	<DL		<= 0.020	**<= 0.027**
15. Niobium	<DL		<= 0.050	**<= 0.056**
16. Palladium	<DL		<= 0.47	**<= 4.47**
17. Platinum	<DL		<= 2.7	**<= 2.7**

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Potentially Toxic and Rare Earth Elements						
18.	Rubidium**	<DL			<= 3.47	**<= 4.13**
19.	Samarium*	<DL			<= 0.03	**<= 0.05**
20.	Tantalum	<DL			<= 0.18	**<= 0.20**
21.	Tellurium	<DL			<= 0.82	**<= 1.17**
22.	Terbium*	<DL			<= 0.01	**<= 0.01**
23.	Thorium	<DL			<= 0.15	**<= 0.23**
24.	Thulium*	<DL			<= 0.006	**<= 0.013**
25.	Tin	<DL			<= 2.9	**<= 4.0**
26.	Tungsten	0.05			<= 0.58	**<= 1.22**
27.	Uranium	<DL			<= 0.031	**<= 0.090**
28.	Zirconium	<DL			<= 1.40	**<= 3.25**
Elements of Uncertain Human Requirement						
29.	Boron**	0.9	1 – 5.5	L	0.1-7.0	**0.3-9.5**
30.	Lithium	12	21 – 119	L	4-114	**11-277**
31.	Nickel	2.1	1.8 – 6.3		0.1-7.9	**1.0-8.6**
32.	Strontium	65	92 – 340	L	19-467	**68-492**
33.	Vanadium	3.93	0.41	H	<= 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.