

HAIR ELEMENTS



PATIENT: Number 174
SEX: Male
AGE: 21

POTENTIALLY TOXIC ELEMENTS				
TOXIC ELEMENTS	RESULT $\mu\text{g/g}$	REFERENCE RANGE	PERCENTILE	
			68 th	95 th
Aluminum	4.7	< 7.0		
Antimony	0.025	< 0.066		
Arsenic	0.24	< 0.080		
Beryllium	< 0.01	< 0.020		
Bismuth	0.038	< 2.0		
Cadmium	< 0.009	< 0.15		
Lead	0.06	< 2.0		
Mercury	2.8	< 1.1		
Platinum	< 0.003	< 0.005		
Thallium	< 0.001	< 0.010		
Thorium	< 0.001	< 0.005		
Uranium	0.16	< 0.060		
Nickel	0.04	< 0.40		
Silver	0.01	< 0.12		
Tin	0.20	< 0.30		
Titanium	0.62	< 1.0		
Total Toxic Representation				

ESSENTIAL AND OTHER ELEMENTS							
ELEMENTS	RESULT $\mu\text{g/g}$	REFERENCE RANGE	PERCENTILE				
			2.5 th	16 th	50 th	84 th	97.5 th
Calcium	547	200- 750					
Magnesium	55	25- 75					
Sodium	39	12- 90					
Potassium	37	9- 40					
Copper	12	10- 28					
Zinc	240	130- 200					
Manganese	0.05	0.15- 0.65					
Chromium	0.21	0.20- 0.40					
Vanadium	0.013	0.018- 0.065					
Molybdenum	0.031	0.025- 0.064					
Boron	0.44	0.40- 3.0					
Iodine	0.65	0.25- 1.3					
Lithium	0.018	0.007- 0.023					
Phosphorus	259	160- 250					
Selenium	0.85	0.95- 1.7					
Strontium	0.57	0.30- 3.5					
Sulfur	50300	44500- 52000					
Barium	0.32	0.16- 1.6					
Cobalt	0.007	0.013- 0.035					
Iron	11	5.4- 13					
Germanium	0.039	0.045- 0.065					
Rubidium	0.012	0.011- 0.12					
Zirconium	0.58	0.020- 0.44					

SPECIMEN DATA				RATIOS		
COMMENTS:				ELEMENTS	RATIOS	EXPECTED RANGE
Date Collected: 6/2/2008	Sample Size: 0.203 g			Ca/Mg	9.95	4- 30
Date Received: 6/5/2008	Sample Type: Head			Ca/P	2.11	0.8- 8
Date Completed: 6/10/2008	Hair Color:			Na/K	1.05	0.5- 10
	Treatment:			Zn/Cu	20	4- 20
Methodology: ICP-MS	Shampoo:			Zn/Cd	> 999	> 800

V06.99

HAIR ELEMENTS



PATIENT: Hair Test 174a - follow-up test
SEX: Male
AGE: 21

POTENTIALLY TOXIC ELEMENTS				
TOXIC ELEMENTS	RESULT $\mu\text{g/g}$	REFERENCE RANGE	PERCENTILE	
			68 th	95 th
Aluminum	6.0	< 7.0		
Antimony	0.027	< 0.066		
Arsenic	0.11	< 0.080		
Beryllium	< 0.01	< 0.020		
Bismuth	0.013	< 2.0		
Cadmium	< 0.009	< 0.15		
Lead	0.09	< 2.0		
Mercury	0.97	< 1.1		
Platinum	< 0.003	< 0.005		
Thallium	< 0.001	< 0.010		
Thorium	< 0.001	< 0.005		
Uranium	0.031	< 0.060		
Nickel	0.08	< 0.40		
Silver	0.03	< 0.12		
Tin	0.04	< 0.30		
Titanium	0.26	< 1.0		
Total Toxic Representation				

ESSENTIAL AND OTHER ELEMENTS							
ELEMENTS	RESULT $\mu\text{g/g}$	REFERENCE RANGE	PERCENTILE				
			2.5 th	16 th	50 th	84 th	97.5 th
Calcium	928	200- 750					
Magnesium	51	25- 75					
Sodium	14	12- 90					
Potassium	14	9- 40					
Copper	11	10- 28					
Zinc	210	130- 200					
Manganese	0.09	0.15- 0.65					
Chromium	0.45	0.20- 0.40					
Vanadium	0.024	0.018- 0.065					
Molybdenum	0.066	0.025- 0.064					
Boron	0.28	0.40- 3.0					
Iodine	0.38	0.25- 1.3					
Lithium	0.008	0.007- 0.023					
Phosphorus	177	160- 250					
Selenium	0.98	0.95- 1.7					
Strontium	0.97	0.30- 3.5					
Sulfur	47700	44500- 52000					
Barium	0.52	0.16- 1.6					
Cobalt	0.006	0.013- 0.035					
Iron	6.7	5.4- 13					
Germanium	0.037	0.045- 0.065					
Rubidium	0.009	0.011- 0.12					
Zirconium	0.78	0.020- 0.44					

SPECIMEN DATA			RATIOS		
COMMENTS:			ELEMENTS	RATIOS	EXPECTED RANGE
Date Collected:	Sample Size:	0.195 g	Ca/Mg	18.2	4- 30
Date Received: 10/25/2008	Sample Type:	Head	Ca/P	5.24	0.8- 8
Date Completed: 10/30/2008	Hair Color:		Na/K	1	0.5- 10
Methodology: ICP-MS	Treatment:		Zn/Cu	19.1	4- 20
	Shampoo:		Zn/Cd	> 999	> 800

V06.99

HAIR ELEMENTS



PATIENT: Hair Test 174b - follow-up test
SEX: Male
AGE: 23

POTENTIALLY TOXIC ELEMENTS				
TOXIC ELEMENTS	RESULT $\mu\text{g/g}$	REFERENCE RANGE	PERCENTILE	
			68 th	95 th
Aluminum	3.6	< 7.0		
Antimony	0.027	< 0.066		
Arsenic	0.084	< 0.080		
Barium	0.34	< 1.0		
Beryllium	< 0.01	< 0.020		
Bismuth	0.032	< 2.0		
Cadmium	0.017	< 0.065		
Lead	0.09	< 0.80		
Mercury	0.15	< 0.80		
Platinum	< 0.003	< 0.005		
Thallium	0.001	< 0.002		
Thorium	< 0.001	< 0.002		
Uranium	0.10	< 0.060		
Nickel	0.11	< 0.20		
Silver	0.01	< 0.08		
Tin	0.03	< 0.30		
Titanium	0.42	< 0.60		
Total Toxic Representation				

ESSENTIAL AND OTHER ELEMENTS							
ELEMENTS	RESULT $\mu\text{g/g}$	REFERENCE RANGE	PERCENTILE				
			2.5 th	16 th	50 th	84 th	97.5 th
Calcium	533	200- 750					
Magnesium	55	25- 75					
Sodium	27	20- 180					
Potassium	6	9- 80					
Copper	12	11- 30					
Zinc	220	130- 200					
Manganese	0.07	0.08- 0.50					
Chromium	0.53	0.40- 0.70					
Vanadium	0.048	0.018- 0.065					
Molybdenum	0.029	0.025- 0.060					
Boron	0.53	0.40- 3.0					
Iodine	0.76	0.25- 1.8					
Lithium	0.013	0.007- 0.020					
Phosphorus	200	150- 220					
Selenium	0.81	0.70- 1.2					
Strontium	0.75	0.30- 3.5					
Sulfur	49400	44000- 50000					
Cobalt	0.004	0.004- 0.020					
Iron	10	7.0- 16					
Germanium	0.030	0.030- 0.040					
Rubidium	0.003	0.011- 0.12					
Zirconium	0.070	0.020- 0.44					

SPECIMEN DATA			RATIOS		
COMMENTS:			ELEMENTS	RATIOS	EXPECTED RANGE
Date Collected:	Sample Size:	0.2 g	Ca/Mg	9.69	4- 30
Date Received: 8/5/2010	Sample Type:	Head	Ca/P	2.67	0.8- 8
Date Completed: 8/7/2010	Hair Color:		Na/K	4.5	0.5- 10
Client Reference: 1238502	Treatment:		Zn/Cu	18.3	4- 20
Methodology: ICP-MS	Shampoo:		Zn/Cd	> 999	> 800

V010.08

1) What are your current symptoms and health history? Candida, very bad digestion, fatigue, depression etc etc.

2) Dental history (wisdom teeth removed? First root canal placed? Braces? First amalgam etc...) 2 Wisdom teeth removed, had 4 fillings since 5, had 8 put in last year when my symptoms got really bad. Had them all removed from holistic dentist within the last 6 months.

3) What dental work do you currently have in place? What part of the dental cleanup have you completed? White fillings, plastic? Not sure I forget

4) What dentistry did your mother have at any time before or during pregnancy?
Possibly a few fillings

5) What vaccinations have you had and when (including flu and especially travel shots)? TB

6) Supplements and medications (including dosages) taken at time of hair test, or for the 3-6 months before the sample was taken. DMSA 12.5mg, VITC, Milk Thistle, B12, ST Johns wart,

7) Other information you feel may be relevant? My life is ruined at the moment because of mercury/yeast and I'm only 21! I would like to do everything I can to get better, I have been chelating for 2 months DMSA only. I would be so grateful if u could help me interpret these test results.