

HAIR ELEMENTS



PATIENT: Number 408a
SEX: Female
AGE: 43

POTENTIALLY TOXIC ELEMENTS				
TOXIC ELEMENTS	RESULT $\mu\text{g/g}$	REFERENCE RANGE	PERCENTILE	
			68 th	95 th
Aluminum	9.6	< 7.0		
Antimony	0.014	< 0.050		
Arsenic	0.063	< 0.060		
Beryllium	< 0.01	< 0.020		
Bismuth	0.020	< 2.0		
Cadmium	0.010	< 0.10		
Lead	0.17	< 1.0		
Mercury	< 0.03	< 1.1		
Platinum	< 0.003	< 0.005		
Thallium	< 0.001	< 0.010		
Thorium	< 0.001	< 0.005		
Uranium	0.22	< 0.060		
Nickel	0.09	< 0.40		
Silver	0.24	< 0.15		
Tin	0.17	< 0.30		
Titanium	7.2	< 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
Calcium	356	300- 1200				
Magnesium	33	35- 120				
Sodium	38	12- 90				
Potassium	15	8- 38				
Copper	15	12- 35				
Zinc	280	140- 220				
Manganese	0.06	0.15- 0.65				
Chromium	0.40	0.20- 0.40				
Vanadium	0.064	0.018- 0.065				
Molybdenum	0.090	0.028- 0.056				
Boron	0.11	0.30- 2.0				
Iodine	0.29	0.25- 1.3				
Lithium	0.025	0.007- 0.023				
Phosphorus	204	160- 250				
Selenium	0.79	0.95- 1.7				
Strontium	1.7	0.50- 7.6				
Sulfur	50900	44500- 52000				
Barium	0.52	0.26- 3.0				
Cobalt	0.016	0.013- 0.050				
Iron	9.6	5.4- 14				
Germanium	0.040	0.045- 0.065				
Rubidium	0.012	0.007- 0.096				
Zirconium	0.058	0.020- 0.42				

SPECIMEN DATA				RATIOS		
COMMENTS:				ELEMENTS	RATIOS	EXPECTED RANGE
Date Collected:	Sample Size:	0.202 g				
Date Received: 3/10/2008	Sample Type:	Head	Ca/Mg	10.8	4- 30	
Date Completed: 3/13/2008	Hair Color:	Red	Ca/P	1.75	1- 12	
	Treatment:		Na/K	2.53	0.5- 10	
Methodology: ICP-MS	Shampoo:	Pantene	Zn/Cu	18.7	4- 20	
			Zn/Cd	> 999	> 800	

HAIR ELEMENTS



PATIENT: Number 408b
SEX: Female
AGE: 45

POTENTIALLY TOXIC ELEMENTS				
TOXIC ELEMENTS	RESULT $\mu\text{g/g}$	REFERENCE RANGE	PERCENTILE	
			68 th	95 th
Aluminum	2.3	< 7.0		
Antimony	0.016	< 0.050		
Arsenic	0.076	< 0.060		
Barium	0.74	< 2.0		
Beryllium	< 0.01	< 0.020		
Bismuth	0.011	< 2.0		
Cadmium	0.028	< 0.050		
Lead	0.11	< 0.60		
Mercury	0.31	< 0.80		
Platinum	< 0.003	< 0.005		
Thallium	< 0.001	< 0.002		
Thorium	0.012	< 0.002		
Uranium	0.40	< 0.060		
Nickel	0.10	< 0.30		
Silver	0.04	< 0.15		
Tin	0.24	< 0.30		
Titanium	1.5	< 0.70		
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	1280	300- 1200					
Magnesium	310	35- 120					
Sodium	10	20- 250					
Potassium	4	8- 75					
Copper	18	11- 37					
Zinc	240	140- 220					
Manganese	0.78	0.08- 0.60					
Chromium	0.35	0.40- 0.65					
Vanadium	0.19	0.018- 0.065					
Molybdenum	0.13	0.020- 0.050					
Boron	0.49	0.25- 1.5					
Iodine	0.32	0.25- 1.8					
Lithium	0.016	0.007- 0.020					
Phosphorus	160	150- 220					
Selenium	0.76	0.55- 1.1					
Strontium	3.4	0.50- 7.6					
Sulfur	47900	44000- 50000					
Cobalt	0.042	0.005- 0.040					
Iron	12	7.0- 16					
Germanium	0.035	0.030- 0.040					
Rubidium	0.007	0.007- 0.096					
Zirconium	0.12	0.020- 0.42					

SPECIMEN DATA			RATIOS		
COMMENTS: Results checked					
Date Collected: 8/22/2010	Sample Size: 0.196 g		ELEMENTS	RATIOS	EXPECTED RANGE
Date Received: 8/27/2010	Sample Type: Head		Ca/Mg	4.13	4- 30
Date Completed: 8/30/2010	Hair Color:		Ca/P	8	1- 12
Client Reference:	Treatment:		Na/K	2.5	0.5- 10
Methodology: ICP-MS	Shampoo: Avolan Organics		Zn/Cu	13.3	4- 20
	V010.08		Zn/Cd	> 999	> 800

Health history 408

I currently have chronic fatigue, hashimoto's, food and inhalent allergies, and some undiagnosed IBD.

I had ten large mercury fillings in my molars, which were placed roughly between seven and my early teen years, including two in my wisdom teeth, which came in early. I had two wisdom teeth removed around age 8, and the other two, containing mercury fillings, removed in my late 30's. Except the wisdom teeth, all of the molars disintegrated around the fillings, the fillings removed without any special precautions, and the teeth crowned, starting in my late 20's and extending to the late 30's. One of these teeth had a root canal that pretty much continually absessed for 20 years. It was then removed and a titanium implant placed in my late 30's. The implant continued to give me problems and pain, and given my poor health in my mid-40's, I had it removed six months ago.

My mother never had a cavity, a tooth pulled, a root canal, or any sort of major dental work. Her teeth were perfect. She probably had some vaccinations, but she was born in the 30's and they were likely few and far between.

My mercury exposure also includes the use of thimersol-containing contact lens solution for 20 years. I was a competitive swimmer who didn't even own glasses, so my lenses were in and out of my eyes roughly three times per day during about 10 years of that period.

I also used contraceptive gel for 20 years, although I never read the ingredient list and do not know if it contained thimersol (it was ortho-gynol, and I'll bet it did).

I was not taking anything, medications or supplements, at the time of this hair test.

My parents thought I was autistic around the ages of one and two. I had what was known at that time as tracking behaviors. I came out of it and have led a normal life until I got sick two years ago.

I took tetracycline for about three years in my early 30's to treat rosacea.

I got sick after taking antibiotics and then getting the flu six months later, and never getting well. I was then put on cortisol but continued to deteriorate. I got a flu shot in the fall of 2008 and went over the edge. I missed five months of work, and have returned to work only part-time. I follow the specific carbohydrate diet which helps me tremendously, but I'm still very sick.

I know this test reads as if I don't have deranged mineral transport, and that there is no mercury being excreted through my hair, but I'd be willing to bet my life, which doesn't mean much these days, that I am severely mercury poisoned.

Thanks for all you do. I hope some day to be well enough to give something more back myself.