



SEX: Female  
AGE: 1

## Toxic & Essential Elements; Hair

TOXIC METALS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 <sup>th</sup> 95 <sup>th</sup>
Aluminum (Al)	8.5	< 8.0	
Antimony (Sb)	0.12	< 0.066	
Arsenic (As)	0.044	< 0.080	
Barium (Ba)	0.28	< 0.75	
Beryllium (Be)	< 0.01	< 0.020	
Bismuth (Bi)	1.5	< 2.0	
Cadmium (Cd)	0.019	< 0.070	
Lead (Pb)	0.94	< 1.0	
Mercury (Hg)	0.09	< 0.40	
Platinum (Pt)	< 0.003	< 0.005	
Thallium (Tl)	< 0.001	< 0.002	
Thorium (Th)	0.001	< 0.002	
Uranium (U)	0.006	< 0.060	
Nickel (Ni)	0.14	< 0.30	
Silver (Ag)	0.20	< 0.20	
Tin (Sn)	0.44	< 0.30	
Titanium (Ti)	0.56	< 0.90	
Total Toxic Representation			

ESSENTIAL AND OTHER ELEMENTS					
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 2.5 <sup>th</sup> 16 <sup>th</sup> 50 <sup>th</sup> 84 <sup>th</sup> 97.5 <sup>th</sup>		
Calcium (Ca)	201	140- 500			
Magnesium (Mg)	52	15- 45			
Sodium (Na)	37	18- 180			
Potassium (K)	94	10- 150			
Copper (Cu)	14	11- 24			
Zinc (Zn)	140	100- 190			
Manganese (Mn)	0.20	0.10- 0.50			
Chromium (Cr)	0.55	0.43- 0.70			
Vanadium (V)	0.073	0.030- 0.10			
Molybdenum (Mo)	0.091	0.050- 0.13			
Boron (B)	1.5	0.40- 3.5			
Iodine (I)	0.99	0.25- 1.3			
Lithium (Li)	0.008	0.007- 0.020			
Phosphorus (P)	159	150- 220			
Selenium (Se)	0.74	0.70- 1.1			
Strontium (Sr)	0.28	0.19- 2.0			
Sulfur (S)	50400	45500- 53000			
Cobalt (Co)	0.013	0.005- 0.030			
Iron (Fe)	14	7.0- 16			
Germanium (Ge)	0.030	0.030- 0.040			
Rubidium (Rb)	0.12	0.012- 0.16			
Zirconium (Zr)	0.60	0.030- 1.0			

SPECIMEN DATA		RATIOS		
<b>COMMENTS:</b>		ELEMENTS	RATIOS	RANGE
Date Collected: 12/16/2014	Sample Size: 0.196 g	Ca/Mg	3.87	4- 30
Date Received: 12/20/2014	Sample Type: Head	Ca/P	1.26	1- 12
Date Completed: 12/27/2014	Hair Color: Brown	Na/K	0.394	0.5- 10
Methodology: ICP/MS	Treatment:	Zn/Cu	10	4- 20
	Shampoo: California	Zn/Cd	> 999	> 800

## Health history for hair test 1033

### 1) What are your current symptoms and health history?

She is tired and cranky throughout the day. She was critically anemic 4 months ago, and required a blood transfusion. They diagnosed her with TEC, a fancy way of saying they don't know what caused it. She had severe reflux from birth until four months ago, test results show she has dysbiosis of the gut, inflammation in the gut, her blood lab levels are still slightly off since her transfusion. She also was born with tracheomalacia- a slight softening of the trachea, she would make the stridor sound and her throat would collapse in on her. It did not require anything, other than laying on her side to sleep.

### 2) Dental history (wisdom teeth removed? First root canal placed? Braces? First amalgam etc...)

Does not pertain to Piper.

### 3) What dental work do you currently have in place? What part of the dental cleanup have you completed?

Does not pertain to Piper.

### 4) What dentistry did your mother have at any time before or during pregnancy?

I had 10 amalgam fillings removed, 3 years before I got pregnant. I also had a tooth removed 3 months before I got pregnant, due to it needing a root canal. During nursing, I had to infections in wisdom teeth sites, which is why I stopped nursing her because I had to get cavity surgery done.

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

Piper has not received vaccinations.

### 6) Supplements and medications (including dosages) taken at time of hair test, or for the 3-6 months before the sample was taken.

Piper takes liquid b vitamins by premier research labs, pure encapsulations digestive enzymes, BioKult probiotics, liquid vitamin d by premier research labs, she's taken various forms of homeopathy, including over the counter remedies like teething agents.

### 7) Other information you feel may be relevant?

We also live in a newly constructed apartment, built a year ago. We've lived here since the end of June. We will be moving out soon. Her blood transfusion was on August 27th, she was tachycardic at the time. Before we moved into the apartment, we lived in a house that had a black mold infestation, and we had to undergo mold remediation and rebuild the closet it was in.

### 8) What is your location - city & country (so that we can learn where certain toxins are more prevalent).

Baltimore, MD