



HAIR TEST 1362  
SEX: Male  
AGE: 18

*Toxic & Essential Elements; Hair*

TOXIC METALS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 <sup>th</sup> 95 <sup>th</sup>
Aluminum (Al)	4.0	< 7.0	
Antimony (Sb)	0.017	< 0.066	
Arsenic (As)	0.029	< 0.080	
Barium (Ba)	0.50	< 1.0	
Beryllium (Be)	< 0.01	< 0.020	
Bismuth (Bi)	0.006	< 2.0	
Cadmium (Cd)	< 0.009	< 0.065	
Lead (Pb)	0.35	< 0.80	
Mercury (Hg)	0.11	< 0.80	
Platinum (Pt)	< 0.003	< 0.005	
Thallium (Tl)	< 0.001	< 0.002	
Thorium (Th)	< 0.001	< 0.002	
Uranium (U)	0.002	< 0.060	
Nickel (Ni)	0.15	< 0.20	
Silver (Ag)	0.05	< 0.08	
Tin (Sn)	0.05	< 0.30	
Titanium (Ti)	0.21	< 0.60	
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)	575	200- 750			
Magnesium (Mg)	24	25- 75			
Sodium (Na)	8	20- 180			
Potassium (K)	7	9- 80			
Copper (Cu)	20	11- 30			
Zinc (Zn)	180	130- 200			
Manganese (Mn)	0.14	0.08- 0.50			
Chromium (Cr)	0.46	0.40- 0.70			
Vanadium (V)	0.038	0.018- 0.065			
Molybdenum (Mo)	0.017	0.025- 0.060			
Boron (B)	0.44	0.40- 3.0			
Iodine (I)	2.2	0.25- 1.8			
Lithium (Li)	0.007	0.007- 0.020			
Phosphorus (P)	146	150- 220			
Selenium (Se)	0.87	0.70- 1.2			
Strontium (Sr)	1.2	0.30- 3.5			
Sulfur (S)	46300	44000- 50000			
Cobalt (Co)	0.006	0.004- 0.020			
Iron (Fe)	5.3	7.0- 16			
Germanium (Ge)	0.034	0.030- 0.040			
Rubidium (Rb)	0.007	0.011- 0.12			
Zirconium (Zr)	0.49	0.020- 0.44			

SPECIMEN DATA		RATIOS	
<b>COMMENTS:</b>		<b>ELEMENTS</b>	<b>RATIOS</b>
Date Collected: 11/28/2017	Sample Size: 0.202 g	Ca/Mg	24
Date Received: 12/11/2017	Sample Type: Head	Ca/P	3.94
Date Completed: 12/13/2017	Hair Color: Brown	Na/K	1.14
Methodology: ICP/MS	Treatment:	Zn/Cu	9
	Shampoo: Suave	Zn/Cd	> 999
		<b>RANGE</b>	
			4- 30
			0.8- 8
			0.5- 10
			4- 20
			> 800

18-year old male living in Washington, DC, USA

1) What are your current symptoms and health history?

Daily migraine headaches for all his life; sleep disturbance – can't fall asleep or stay asleep but this is some better recently; past history of suicidal depression, depression and anxiety; emotional problems that have abated greatly after intensive therapy but still prone to depression; reactive attachment disorder (common with adoptees).

2) Dental history

Wisdom teeth removed--no

First root canal placed – none

Braces--none

Never any amalgams (composite fillings only)

3) What dental work do you currently have in place? What part of the dental cleanup have you completed? Non-amalgam fillings.

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

Unknown – Russian adoptee born 1999

5) What vaccinations have you had and when (including flu and especially travel shots)? See attached list.

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

Age: 18

Height and weight: 5'2" 135lbs

D3 – 200IU/Calcium carbonate 333mg/magnesium oxide 133mg/zinc sulfate 5mg

B2 riboflavin – 100mg daily

Occasional Rx naproxen – 600mg as needed to treat migraines; only for three days in a row

7) Other information you feel may be relevant?

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

IMMUNIZATION LIST 10/1999-4/2003=Received in Moscow, Russia orphanage  
5/2003-present—received in Washington DC, USA

BCG Bacillus Calmette Guerin vaccine (Tuberculosis) 9/26/2000, 10/22/2001, 9/24/2002,  
DTP (Diphtheria, Tetanus, Pertussis) 12/25/2000, 1/26/2001, 2/26/2001, 3/28/2002  
DTaP (Diphtheria, Tetanus, acellular Pertussis) 10/28/2003  
HBV (Hepatitis B) 3/28/2002, 4/29/2002, 9/28/2002  
HIB (Haemophilus influenzae b) 4/11/2001  
HPV4 (Human papillomavirus, quadrivalent) 10/21/2011, 2/17/2012, 10/11/2012  
INF H1N1-09 standard dose (Influenza H1N1-09). 11/6/2009  
INFs 3yrs-adult (Influenza) 11/4/2006, 10/13/2007, 10/23/2009, 11/12/2010  
INFs 4yrs-adult (influenza) 10/24/2008  
INFs pres free 3yrs-adult (FLUARIX Quadrivalent) (Influenza, split virus) 12/15/2014, 9/6/2016  
INFs pres free 3yrs-adult (Influenza) 10/21/2011, 10/11/2012  
MEA (Measles) 6/15/2001  
MEN-ACYW (MENVEO) (meningococcal oligosaccharide ACYW-135) 5/31/2017  
MENcn-ACYW (Meningococcal conjugate, groups ACYW-135) 11/12/2010  
MMR (Measles, Mumps, Rubella) 10/28/2003  
MUM (Mumps) 8/13/2001  
POL (Polio) 12/25/2000, 1/26/2001, 2/26/2001, 3/28/2002, 6/10/2002  
POL-IPV (Polio, Inactivated virus) 10/28/2003  
RUB (Rubella) 7/13/2002  
TB-PPD, (TB skin test) 5/13/2003  
Tdap (ADACEL) (Tetanus, diphtheria, acellular pertussis) 11/12/2010  
VAR (Varicella, chickenpox) 5/16/2003, 10/24/