

HAIR ELEMENTS



PATIENT: Number 374
SEX: Male
AGE: 21

POTENTIALLY TOXIC ELEMENTS

TOXIC ELEMENTS	RESULT $\mu\text{g/g}$	REFERENCE RANGE	PERCENTILE	
			68 th	95 th
Aluminum	4.0	< 7.0		
Antimony	0.051	< 0.066		
Arsenic	0.049	< 0.080		
Barium	0.17	< 1.0		
Beryllium	< 0.01	< 0.020		
Bismuth	0.025	< 2.0		
Cadmium	0.022	< 0.065		
Lead	0.43	< 0.80		
Mercury	< 0.03	< 0.80		
Platinum	< 0.003	< 0.005		
Thallium	< 0.001	< 0.002		
Thorium	< 0.001	< 0.002		
Uranium	0.002	< 0.060		
Nickel	0.05	< 0.20		
Silver	0.02	< 0.08		
Tin	0.11	< 0.30		
Titanium	0.44	< 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	177	200 - 750					
Magnesium	19	25 - 75					
Sodium	66	20 - 180					
Potassium	12	9 - 80					
Copper	8.1	11 - 30					
Zinc	190	130 - 200					
Manganese	0.44	0.08 - 0.50					
Chromium	0.37	0.40 - 0.70					
Vanadium	0.023	0.018 - 0.065					
Molybdenum	0.039	0.025 - 0.060					
Boron	1.3	0.40 - 3.0					
Iodine	0.39	0.25 - 1.8					
Lithium	< 0.004	0.007 - 0.020					
Phosphorus	172	150 - 220					
Selenium	0.99	0.70 - 1.2					
Strontium	0.32	0.30 - 3.5					
Sulfur	46600	44000 - 50000					
Cobalt	0.003	0.004 - 0.020					
Iron	8.3	7.0 - 16					
Germanium	0.035	0.030 - 0.040					
Rubidium	0.016	0.011 - 0.12					
Zirconium	0.78	0.020 - 0.44					

SPECIMEN DATA

COMMENTS:

Date Collected: 5/2/2010
Date Received: 5/4/2010
Date Completed: 5/13/2010
Client Reference: 1230536
Methodology: ICP-MS

Sample Size: 0.195 g
Sample Type: Head
Hair Color: Brown
Treatment:
Shampoo: Biolage

V010.08

RATIOS

ELEMENTS	RATIOS	EXPECTED RANGE
Ca/Mg	9.32	4 - 30
Ca/P	1.03	0.8 - 8
Na/K	5.5	0.5 - 10
Zn/Cu	23.5	4 - 20
Zn/Cd	> 999	> 800

Health history for hair test 374

21 year old male

History of mental disorder since 8 yrs old

Bipolar depression with some manic

Never had an amalgam filling

Mother had 8 amalgams during pregnancy

Normal course of childhood vaccinations/ MMR ect./no meningitis vaccination
very few annual flu shots

Presently taking EM Power Multi for treatment of Bipolar thru micro nutrients

5 caps 2 x day:

Serv Size 4 caps:

Vit A 1536 IU 30%

Vit c (ascorbic acid) 160 mg 270%

Vit D 384 IU 100%

Vit E 96 IU 320%

Thiamine 4.8 mg 320%

Riboflavin 3.6 mg 210%

Niacin 24 mg 120%

Vit b 6 9.6 mg 480%

Folic Acid 384 mcg 100%

Vit b 12 240 mcg 4000%

biotin 288 mcg 100%

Pantothenic Acid (as d-calcium pantothenate 5.8 mg 60%

Calcium 352 mg 35%

Iron 3.7 mg 20%

Phosphorus 224 mg 20%

Iodine 54.4 mcg 40%

Magnesium 160 mg 40%

Zinc 12.8 mg 90%

Selenium 54.4 mcg 80%

Copper 1.9 mg 100%

Manganese 2.6 mg 130%

Chromium 166.4 mcg 140%

Molybdenum 38.4 mcg 50%

Potassium 64mg 2%

Proprietary Blend 886.8 mg:

Choline bitartrate, DL-phenylalanine, citrus bioflavonoids, inositol,
L-glutamine, L-methionine, grape seed extract, ginkgo biloba (leaf)
germanium sesquioxide, boron, vanadium, nickel

Thank You for your assistance, do not know how to read DDI HT.