

HAIR ELEMENTS



LAB#: H060922-0232-1
 PATIENT: Nahia Abbo
 SEX: Female
 AGE: 39

CLIENT#: 22880
 DOCTOR:
 Matrix, Inc.
 5082 List Drive
 Colorado Springs, CO 80919

SEP 20 2006

BY: _____

POTENTIALLY TOXIC ELEMENTS

TOXIC ELEMENTS	RESULT µg/g	REFERENCE RANGE	PERCENTILE	
			50 th	95 th
Aluminum	4.9	< 12		
Antimony	0.027	< 0.060		
Arsenic	0.088	< 0.090		
Beryllium	≤ 0.01	< 0.020		
Bismuth	0.92	< 0.13		
Cadmium	0.10	< 0.10		
Lead	0.85	< 1.0		
Mercury	0.14	< 1.1		
Platinum	< 0.005	< 0.005		
Thallium	≤ 0.001	< 0.010		
Thorium	< 0.001	< 0.005		
Uranium	0.007	< 0.060		
Nickel	0.07	< 0.40		
Silver	0.07	< 0.10		
Tin	0.24	< 0.30		
Titanium	5.7	< 1.0		

Total Toxic Representation

ESSENTIAL AND OTHER ELEMENTS

ELEMENTS	RESULT µg/g	REFERENCE RANGE	PERCENTILE				
			25 th	10 th	50 th	80 th	97.5 th
Calcium	430	475- 1500					
Magnesium	50	45- 180					
Sodium	630	24- 180					
Potassium	250	20- 90					
Copper	11	3.0- 24					
Zinc	140	130- 200					
Manganese	0.16	0.20- 0.65					
Chromium	0.47	0.20- 0.45					
Vanadium	0.052	0.018- 0.065					
Molybdenum	0.12	0.040- 0.13					
Boron	3.2	0.70- 4.0					
Iodine	0.46	0.25- 1.3					
Lithium	0.011	0.008- 0.040					
Phosphorus	259	350- 600					
Selenium	1.2	0.95- 1.7					
Strontium	0.85	1.0- 8.0					
Sulfur	44800	43000- 53000					
Barium	0.21	0.50- 5.0					
Cobalt	0.034	0.013- 0.050					
Iron	13	5.8- 14					
Germanium	0.030	0.045- 0.065					
Rubidium	0.27	0.030- 0.25					
Zirconium	0.15	0.040- 1.0					

SPECIMEN DATA

COMMENTS:
 Date Collected: 9/19/2006 Sample Size: 0.197 g
 Date Received: 9/22/2006 Sample Type: Pubic
 Date Completed: 9/25/2006 Hair Color:
 Treatment:
 Methodology: ICP-MS Shampoo: Pert

RATIOS

ELEMENTS	RATIOS	EXPECTED RANGE
Ca/Mg	8.6	4- 30
Ca/P	1.66	1- 1.2
Na/K	2.16	0.5- 10
Zn/Cu	12.7	4- 20
Zn/Cd	> 000	> 800

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