HAIR ELEMENTS

PATIENT: Number 113
SEX: Female
AGE: 43
Location: Johannesburg, RSA

POTENTIALLY TOXIC ELEMENTS

TOXIC ELEMENTS	RESULT µg/g	REFERENCE RANGE
Aluminum	**3.0**	< 7.0
Antimony	**0.013**	< 0.050
Arsenic	**0.039**	< 0.060
Beryllium	**< 0.01**	< 0.020
Bismuth	**1.8**	< 2.0
Cadmium	**0.016**	< 0.10
Lead	**0.11**	< 1.0
Mercury	**0.52**	< 1.1
Platinum	**< 0.003**	< 0.005
Thallium	**< 0.001**	< 0.010
Thorium	**< 0.001**	< 0.005
Uranium	**0.017**	< 0.060
Nickel	**0.22**	< 0.40
Silver	**0.20**	< 0.15
Tin	**0.05**	< 0.30
Titanium	**0.92**	< 1.0
Total Toxic Representation		

PERCENTILE: 68th, 95th

ESSENTIAL AND OTHER ELEMENTS

ELEMENTS	RESULT µg/g	REFERENCE RANGE
Calcium	**920**	300- 1200
Magnesium	**130**	35- 120
Sodium	**60**	12- 90
Potassium	**9**	8- 38
Copper	**21**	12- 35
Zinc	**190**	140- 220
Manganese	**0.21**	0.15- 0.65
Chromium	**0.45**	0.20- 0.40
Vanadium	**0.050**	0.018- 0.065
Molybdenum	**0.026**	0.028- 0.056
Boron	**0.19**	0.30- 2.0
Iodine	**0.33**	0.25- 1.3
Lithium	**< 0.004**	0.007- 0.023
Phosphorus	**150**	160- 250
Selenium	**0.64**	0.95- 1.7
Strontium	**2.2**	0.50- 7.6
Sulfur	**47100**	44500- 52000
Barium	**1.9**	0.26- 3.0
Cobalt	**0.36**	0.013- 0.050
Iron	**9.7**	5.4- 14
Germanium	**0.037**	0.045- 0.065
Rubidium	**0.005**	0.007- 0.096
Zirconium	**0.15**	0.020- 0.42

PERCENTILE: 2.5th, 16th, 50th, 84th, 97.5th

SPECIMEN DATA

COMMENTS:

Date Collected:
Date Received: **9/20/2007**
Date Completed: **9/27/2007**

Methodology: **ICP-MS**

Sample Size: **0.199 g**
Sample Type: **Head**
Hair Color: **Brown**
Treatment:
Shampoo:

V06.99

RATIOS

ELEMENTS	RATIOS	EXPECTED RANGE
Ca/Mg	**7.08**	4- 30
Ca/P	**6.13**	1- 12
Na/K	**6.67**	0.5- 10
Zn/Cu	**9.05**	4- 20
Zn/Cd	**> 999**	> 800

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