

HAIR ELEMENTS



PATIENT: Number 90
SEX: Male
AGE: 5
Location: Belgium

POTENTIALLY TOXIC ELEMENTS				
TOXIC ELEMENTS	RESULT $\mu\text{g/g}$	REFERENCE RANGE	PERCENTILE	
			68 th	95 th
Aluminum	18	< 8.0	[Bar chart showing result at 68th percentile]	
Antimony	0.051	< 0.066	[Bar chart showing result at 68th percentile]	
Arsenic	0.056	< 0.080	[Bar chart showing result at 68th percentile]	
Beryllium	< 0.01	< 0.020	[Bar chart showing result at 68th percentile]	
Bismuth	0.014	< 2.0	[Bar chart showing result at 68th percentile]	
Cadmium	0.028	< 0.15	[Bar chart showing result at 68th percentile]	
Lead	0.90	< 1.0	[Bar chart showing result at 68th percentile]	
Mercury	0.05	< 0.40	[Bar chart showing result at 68th percentile]	
Platinum	< 0.003	< 0.005	[Bar chart showing result at 68th percentile]	
Thallium	< 0.001	< 0.010	[Bar chart showing result at 68th percentile]	
Thorium	< 0.001	< 0.005	[Bar chart showing result at 68th percentile]	
Uranium	0.003	< 0.060	[Bar chart showing result at 68th percentile]	
Nickel	0.12	< 0.40	[Bar chart showing result at 68th percentile]	
Silver	0.19	< 0.20	[Bar chart showing result at 68th percentile]	
Tin	0.33	< 0.30	[Bar chart showing result at 68th percentile]	
Titanium	0.65	< 1.0	[Bar chart showing result at 68th percentile]	
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	332	125- 370	[Bar chart showing result between 50th and 84th percentiles]				
Magnesium	14	12- 30	[Bar chart showing result between 50th and 84th percentiles]				
Sodium	140	12- 90	[Bar chart showing result between 50th and 84th percentiles]				
Potassium	110	12- 40	[Bar chart showing result between 50th and 84th percentiles]				
Copper	15	8.0- 16	[Bar chart showing result between 50th and 84th percentiles]				
Zinc	140	100- 190	[Bar chart showing result between 50th and 84th percentiles]				
Manganese	0.46	0.20- 0.55	[Bar chart showing result between 50th and 84th percentiles]				
Chromium	0.28	0.26- 0.50	[Bar chart showing result between 50th and 84th percentiles]				
Vanadium	0.050	0.030- 0.10	[Bar chart showing result between 50th and 84th percentiles]				
Molybdenum	0.034	0.050- 0.13	[Bar chart showing result between 50th and 84th percentiles]				
Boron	2.3	0.60- 4.0	[Bar chart showing result between 50th and 84th percentiles]				
Iodine	0.14	0.25- 1.3	[Bar chart showing result between 50th and 84th percentiles]				
Lithium	0.014	0.007- 0.023	[Bar chart showing result between 50th and 84th percentiles]				
Phosphorus	233	160- 250	[Bar chart showing result between 50th and 84th percentiles]				
Selenium	0.83	0.95- 1.7	[Bar chart showing result between 50th and 84th percentiles]				
Strontium	0.28	0.16- 1.0	[Bar chart showing result between 50th and 84th percentiles]				
Sulfur	52700	45500- 53000	[Bar chart showing result between 50th and 84th percentiles]				
Barium	0.16	0.16- 0.80	[Bar chart showing result between 50th and 84th percentiles]				
Cobalt	0.016	0.013- 0.035	[Bar chart showing result between 50th and 84th percentiles]				
Iron	15	8.0- 19	[Bar chart showing result between 50th and 84th percentiles]				
Germanium	0.030	0.045- 0.065	[Bar chart showing result between 50th and 84th percentiles]				
Rubidium	0.11	0.016- 0.18	[Bar chart showing result between 50th and 84th percentiles]				
Zirconium	0.079	0.040- 1.0	[Bar chart showing result between 50th and 84th percentiles]				

SPECIMEN DATA				RATIOS		
COMMENTS:				ELEMENTS	RATIOS	EXPECTED RANGE
Date Collected: 5/28/2007	Sample Size: 0.202 g			Ca/Mg	23.7	4- 30
Date Received: 6/4/2007	Sample Type: Head			Ca/P	1.42	0.8- 8
Date Completed: 6/9/2007	Hair Color: Brown			Na/K	1.27	0.5- 10
	Treatment:			Zn/Cu	9.33	4- 20
Methodology: ICP-MS	Shampoo: Herbal Essences			Zn/Cd	> 999	> 800
				V06.99		