

HAIR ELEMENTS



PATIENT: Number 401
SEX: Male
AGE: 29
LOCATION: Londonderry, New Hampshire

POTENTIALLY TOXIC ELEMENTS

| TOXIC ELEMENTS | RESULT $\mu\text{g/g}$ | REFERENCE RANGE | PERCENTILE | |
|----------------------------|------------------------|-----------------|------------------|------------------|
| | | | 68 th | 95 th |
| Aluminum | 5.6 | < 7.0 | | |
| Antimony | 0.036 | < 0.066 | | |
| Arsenic | 0.081 | < 0.080 | | |
| Barium | 0.37 | < 1.0 | | |
| Beryllium | < 0.01 | < 0.020 | | |
| Bismuth | 0.026 | < 2.0 | | |
| Cadmium | 0.010 | < 0.065 | | |
| Lead | 0.05 | < 0.80 | | |
| Mercury | 0.49 | < 0.80 | | |
| Platinum | < 0.003 | < 0.005 | | |
| Thallium | 0.002 | < 0.002 | | |
| Thorium | 0.001 | < 0.002 | | |
| Uranium | 0.005 | < 0.060 | | |
| Nickel | 0.06 | < 0.20 | | |
| Silver | 0.01 | < 0.08 | | |
| Tin | 0.06 | < 0.30 | | |
| Titanium | 0.35 | < 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 | 210 | 200- 750 | | | | | |
| Magnesium | 18 | 25- 75 | | | | | |
| Sodium | 16 | 20- 180 | | | | | |
| Potassium | 9 | 9- 80 | | | | | |
| Copper | 10 | 11- 30 | | | | | |
| Zinc | 170 | 130- 200 | | | | | |
| Manganese | 0.26 | 0.08- 0.50 | | | | | |
| Chromium | 0.39 | 0.40- 0.70 | | | | | |
| Vanadium | 0.021 | 0.018- 0.065 | | | | | |
| Molybdenum | 0.038 | 0.025- 0.060 | | | | | |
| Boron | 0.92 | 0.40- 3.0 | | | | | |
| Iodine | 1.9 | 0.25- 1.8 | | | | | |
| Lithium | < 0.004 | 0.007- 0.020 | | | | | |
| Phosphorus | 208 | 150- 220 | | | | | |
| Selenium | 0.77 | 0.70- 1.2 | | | | | |
| Strontium | 0.87 | 0.30- 3.5 | | | | | |
| Sulfur | 40500 | 44000- 50000 | | | | | |
| Cobalt | 0.003 | 0.004- 0.020 | | | | | |
| Iron | 2.7 | 7.0- 16 | | | | | |
| Germanium | 0.026 | 0.030- 0.040 | | | | | |
| Rubidium | 0.014 | 0.011- 0.12 | | | | | |
| Zirconium | 0.12 | 0.020- 0.44 | | | | | |

SPECIMEN DATA

COMMENTS:
 Date Collected: Sample Size: **0.199 g**
 Date Received: **7/22/2010** Sample Type: **Head**
 Date Completed: **7/23/2010** Hair Color:
 Client Reference: **1238473** Treatment:
 Methodology: **ICP-MS** Shampoo:

RATIOS

| ELEMENTS | RATIOS | EXPECTED RANGE |
|----------|-----------------|----------------|
| Ca/Mg | 11.7 | 4- 30 |
| Ca/P | 1.01 | 0.8- 8 |
| Na/K | 1.78 | 0.5- 10 |
| Zn/Cu | 17 | 4- 20 |
| Zn/Cd | > 999 | > 800 |

V010.08

Health history for hair test 401

1) What are your current symptoms and health history?

Food sensitivities, fatigue, minor fibromyalgia, minor cystic acne, adhd. dry hair. candida, weight loss.

2) Dental history (wisdom teeth removed? First root canal placed? Braces? First amalgam etc...)

Wisdom teeth out in '04. No root canal. braces in '93-95. Single amalgam filling in 90s. Porcelain resin composite fillings since. Safe amalgam removal in '10

3) What dental work do you currently have in place? What part of the dental cleanup have you completed?

All composite fillings. All amalgam removal complete

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

At least 2-3 amalgam fillings.

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

No flu shots. Last tetanus vaccine in '07. MMR vaccine after birth..

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

Digestive enzymes, Probiotics, Multi-vitamin, calcium/magnesium citrate

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).

Londonderry, New Hampshire