105 - 32 Royal Vista Dr NW Calgary, AB T3R 0H9 www.rmalab.com

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Date of Collection: 6-Oct-2016
Sample Received: 17-Oct-2016
Reported Date: 25-Oct-2016
Sample Type: Scalp hair

## **Hair Element Analysis**

## Accession #: 536219

Gender: M

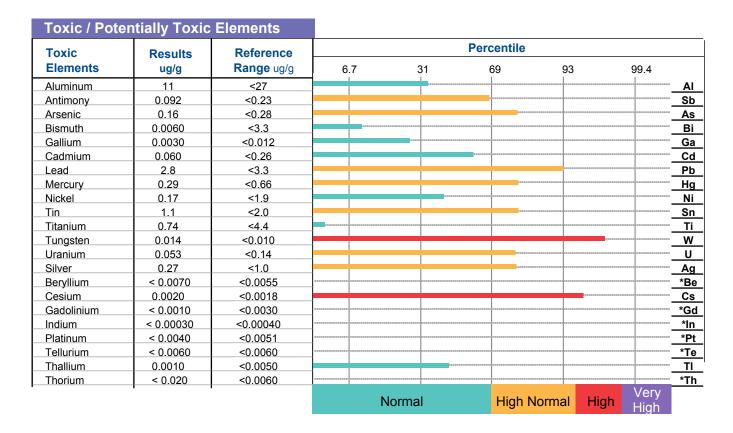
Date of Birth: 01-Feb-2012

Age: 4

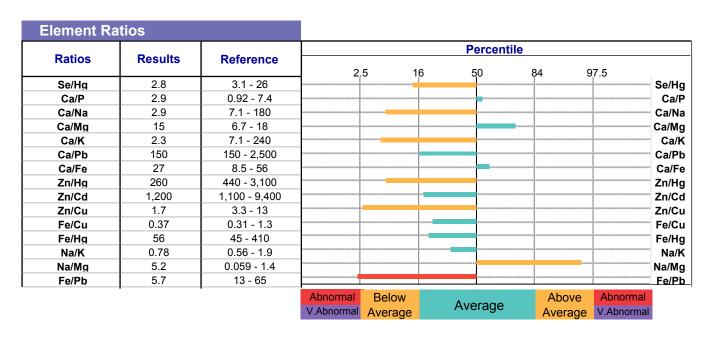
| Essential  | Results | Reference       | Percentile                              |   |      |   |   |   |   |     |
|------------|---------|-----------------|---|---|------|---|---|---|---|-----|
| Elements   | ug/g    | Range ug/g      | 2.                                      | .5                                      | 16   | 50                                      | 84                                      | 97                                      | 7.5                                     |     |
| Calcium    | 430     | 140 - 1,000     |   | •••••                                   |      |   |   |   |   | . ( |
| Magnesium  | 28      | 14 - 100        | 100000000000000000000000000000000000000 | *************************************** |      |   |   |   | *************************************** |     |
| Sodium     | 150     | 2.9 - 40        |   | *************************************** |      |   |   |   | *************************************** | ٠ı  |
| Potassium  | 190     | 3.1 - 28        | 100000000000000000000000000000000000000 |   |      |   |   |   |   |     |
| Copper     | 43      | 11 - 27         | 100000000000000000000000000000000000000 |   |      |   |   |   | •••••••                                 |     |
| Zinc       | 74      | 110 - 210       | 100000000000000000000000000000000000000 |   |      |   |   |   | *************************************** | . : |
| Manganese  | 0.56    | 0.15 - 0.50     | 100000000000000000000000000000000000000 | *************************************** |      |   | *******                                 |   | *************************************** |     |
| Chromium   | 0.098   | 0.13 - 0.35     | 100000000000000000000000000000000000000 | *************************************** |      | ,00000000000                            |   |   | *************************************** | 4   |
| Vanadium   | 0.043   | 0.019 - 0.090   | 100000000000000000000000000000000000000 | *************************************** |      |   |   |   | *************************************** |     |
| Molybdenum | 0.078   | 0.045 - 0.12    | 100000000000000000000000000000000000000 |   |      |   |   |   | *************************************** | 1   |
| Boron      | 2.9     | 0.40 - 3.0      | 100000000000000000000000000000000000000 | *************************************** |      |   |   |   | *************************************** |     |
| Silicon    | 390     | 270 - 470       | 100000000000000000000000000000000000000 | *************************************** |      |   |   |   | *************************************** |     |
| Lithium    | 0.017   | 0.0056 - 0.011  | 100000000000000000000000000000000000000 |   |      |   |   |   |   |     |
| Phosphorus | 150     | 120 - 190       | 100000000000000000000000000000000000000 | *************************************** |      |   | ••••••                                  |   | *************************************** |     |
| Selenium   | 0.81    | 0.72 - 1.6      | 100000000000000000000000000000000000000 | *************************************** |      |   |   |   | *************************************** |     |
| Strontium  | 1.9     | 0.22 - 3.1      | 100000000000000000000000000000000000000 | *************************************** |      |   | ••••••                                  |   | *************************************** | -   |
| Sulfur     | 47,000  | 47,000 - 53,000 | 100000000000000000000000000000000000000 | *************************************** | •••• | 100000000000                            |   | *************************************** | *************************************** |     |
| Barium     | 0.61    | 0.43 - 2.3      | 100000000000000000000000000000000000000 | *************************************** |      | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | ••••••                                  |   | *************************************** | 1   |
| Cobalt     | 0.017   | 0.0073 - 0.036  | 100000000000000000000000000000000000000 | *************************************** |      |   | ••••••                                  |   | *************************************** | ٠,  |
| Iron       | 16      | 14 - 23         | 100000000000000000000000000000000000000 | *************************************** |      |   |   |   | *************************************** | 4   |
| Germanium  | 0.0030  | 0.0028 - 0.012  | 100000000000000000000000000000000000000 | *************************************** |      | )000000000000                           |   | *************************************** |   | ١,  |
| Rubidium   | 0.23    | 0.0074 - 0.044  | 100000000000000000000000000000000000000 | *************************************** |      |   |   |   | ••••                                    | 1   |
| Zirconium  | 0.18    | 0.32 - 1.9      | 100000000000000000000000000000000000000 | 00000000                                |      | )00000000000000                         | *************************************** |   | *************************************** |     |
|            |         | 1               | Abnormal                                | Below                                   |      | Average                                 |   | bove                                    | Abnormal                                |     |
|            |         |                 | V.Abnormal                              | Average                                 | 2    | Average                                 | Δv                                      | erage                                   | V.Abnormal                              | 4   |

<sup>\*</sup> Result lies below detection limit (DL is at right end of bar)

**NOTE:** Our interpretation follows the system developed by Andrew Hall Cutler PhD, which requires consideration of the overall distribution pattern for essential elements as a first step in the interpretation of the results. If the essential element distribution pattern is statistically normal, then both toxic and essential element results can usually be taken at face value. If the essential elements results exhibit a statistically improbable distribution pattern, this suggests heavy metal toxicity or some other interfering process. The interpretation comments starting on page 3 state whether the essential element graph above fits a statistically normal or statistically unlikely distribution pattern.



<sup>\*</sup> Result lies below detection limit



## **Health history**

- 1. **His current symptoms:** Hyperactivity, stubbornness, Speech delay, seeking.
- 2. Dental history: Nothing.
- 3. Dental work: Nothing.
- 4. **Mother dentistry:** the mother is a dentist, she does not work with amalgams, and she has done only dental care. However, the father has made amalgams but he has removed it.
- 5. **Vaccinations History:** He has done all vaccinations until 2 years.
- 6. **Supplementation**: Omega 3 (Nordic naturals DHA) and Natural Calm Magnesium.
- 7. **Other informations**: for the first test done on 24 november 2015, he has taken Ultra clear renew (1/4 scoop daily), Metalloclear (1 capsule daily), Trancor (1 capsule daily), Glutathione liposomal (1 tea spoon daily). However, the second test which done on 25 october 2016, we have notify no great changes in the test results or in the behavior.
- 8. Location: Sétif (Algeria).