



HAIR TEST: 1153
SEX: Male
AGE: 19

Toxic & Essential Elements; Hair

| TOXIC METALS | | | |
|----------------------------|----------------|-----------------------|---|
| | RESULT µg/g | REFERENCE INTERVAL | PERCENTILE 68 th 95 th |
| Aluminum (Al) | 2.7 | < 7.0 | |
| Antimony (Sb) | 0.014 | < 0.066 | |
| Arsenic (As) | 0.037 | < 0.080 | |
| Barium (Ba) | 0.51 | < 1.0 | |
| Beryllium (Be) | < 0.01 | < 0.020 | |
| Bismuth (Bi) | 0.002 | < 2.0 | |
| Cadmium (Cd) | < 0.009 | < 0.065 | |
| Lead (Pb) | 0.29 | < 0.80 | |
| Mercury (Hg) | 0.28 | < 0.80 | |
| Platinum (Pt) | < 0.003 | < 0.005 | |
| Thallium (Tl) | < 0.001 | < 0.002 | |
| Thorium (Th) | < 0.001 | < 0.002 | |
| Uranium (U) | 0.003 | < 0.060 | |
| Nickel (Ni) | 0.10 | < 0.20 | |
| Silver (Ag) | 0.10 | < 0.08 | |
| Tin (Sn) | 0.03 | < 0.30 | |
| Titanium (Ti) | 0.48 | < 0.60 | |
| Total Toxic Representation | | | |

| ESSENTIAL AND OTHER ELEMENTS | | | | | |
|------------------------------|----------------|-----------------------|-------------------|------------------|--|
| | RESULT µg/g | REFERENCE INTERVAL | PERCENTILE | | |
| | | | 2.5 th | 16 th | 50 th 84 th 97.5 th |
| Calcium (Ca) | 2080 | 200- 750 | | | |
| Magnesium (Mg) | 16 | 25- 75 | | | |
| Sodium (Na) | 10 | 20- 180 | | | |
| Potassium (K) | 3 | 9- 80 | | | |
| Copper (Cu) | 210 | 11- 30 | | | |
| Zinc (Zn) | 170 | 130- 200 | | | |
| Manganese (Mn) | 0.07 | 0.08- 0.50 | | | |
| Chromium (Cr) | 0.36 | 0.40- 0.70 | | | |
| Vanadium (V) | 0.016 | 0.018- 0.065 | | | |
| Molybdenum (Mo) | 0.030 | 0.025- 0.060 | | | |
| Boron (B) | 0.15 | 0.40- 3.0 | | | |
| Iodine (I) | 0.15 | 0.25- 1.8 | | | |
| Lithium (Li) | 0.006 | 0.007- 0.020 | | | |
| Phosphorus (P) | 171 | 150- 220 | | | |
| Selenium (Se) | 0.62 | 0.70- 1.2 | | | |
| Strontium (Sr) | 2.6 | 0.30- 3.5 | | | |
| Sulfur (S) | 47300 | 44000- 50000 | | | |
| Cobalt (Co) | 0.006 | 0.004- 0.020 | | | |
| Iron (Fe) | 11 | 7.0- 16 | | | |
| Germanium (Ge) | 0.038 | 0.030- 0.040 | | | |
| Rubidium (Rb) | 0.005 | 0.011- 0.12 | | | |
| Zirconium (Zr) | < 0.007 | 0.020- 0.44 | | | |

| SPECIMEN DATA | | RATIOS | |
|----------------------------|-------------------|-----------------|---------------|
| COMMENTS: | | ELEMENTS | RATIOS |
| Date Collected: 02/15/2016 | | Ca/Mg | 130 |
| Date Received: 03/01/2016 | | Ca/P | 12.2 |
| Date Completed: 03/02/2016 | | Na/K | 3.33 |
| Methodology: ICP/MS | | Zn/Cu | 0.81 |
| Sample Size: 0.197 g | Sample Type: Head | Zn/Cd | > 999 |
| Hair Color: Brown | Treatment: | | |
| Shampoo: Pantene Pro V | | | |
| | | RANGE | |
| | | 4- 30 | |
| | | 0.8- 8 | |
| | | 0.5- 10 | |
| | | 4- 20 | |
| | | > 800 | |