

HAIR ELEMENTS



PATIENT: Number 208
SEX: Female
AGE: 34
LOCATION: Trondheim, Norway

| POTENTIALLY TOXIC ELEMENTS | | | | |
|----------------------------|------------------------|-----------------|------------------|------------------|
| TOXIC ELEMENTS | RESULT $\mu\text{g/g}$ | REFERENCE RANGE | PERCENTILE | |
| | | | 68 th | 95 th |
| Aluminum | 5.6 | < 7.0 | | |
| Antimony | 0.012 | < 0.050 | | |
| Arsenic | 0.034 | < 0.060 | | |
| Beryllium | < 0.01 | < 0.020 | | |
| Bismuth | 0.10 | < 2.0 | | |
| Cadmium | < 0.009 | < 0.10 | | |
| Lead | 0.23 | < 1.0 | | |
| Mercury | 0.34 | < 1.1 | | |
| Platinum | < 0.003 | < 0.005 | | |
| Thallium | < 0.001 | < 0.010 | | |
| Thorium | < 0.001 | < 0.005 | | |
| Uranium | 0.010 | < 0.060 | | |
| Nickel | 0.08 | < 0.40 | | |
| Silver | 0.09 | < 0.15 | | |
| Tin | 0.08 | < 0.30 | | |
| Titanium | 1.1 | < 1.0 | | |
| Total Toxic Representation | | | | |

| ESSENTIAL AND OTHER ELEMENTS | | | | | | |
|------------------------------|------------------------|-----------------|-------------------|------------------|------------------|--------------------|
| ELEMENTS | RESULT $\mu\text{g/g}$ | REFERENCE RANGE | PERCENTILE | | | 97.5 th |
| | | | 2.5 th | 16 th | 50 th | |
| Calcium | 288 | 300- 1200 | | | | |
| Magnesium | 11 | 35- 120 | | | | |
| Sodium | 6 | 12- 90 | | | | |
| Potassium | 14 | 8- 38 | | | | |
| Copper | 16 | 12- 35 | | | | |
| Zinc | 270 | 140- 220 | | | | |
| Manganese | 0.05 | 0.15- 0.65 | | | | |
| Chromium | 0.37 | 0.20- 0.40 | | | | |
| Vanadium | 0.034 | 0.018- 0.065 | | | | |
| Molybdenum | 0.026 | 0.028- 0.056 | | | | |
| Boron | 0.30 | 0.30- 2.0 | | | | |
| Iodine | 0.23 | 0.25- 1.3 | | | | |
| Lithium | < 0.004 | 0.007- 0.023 | | | | |
| Phosphorus | 179 | 160- 250 | | | | |
| Selenium | 0.81 | 0.95- 1.7 | | | | |
| Strontium | 0.38 | 0.50- 7.6 | | | | |
| Sulfur | 48100 | 44500- 52000 | | | | |
| Barium | 0.24 | 0.26- 3.0 | | | | |
| Cobalt | 0.004 | 0.013- 0.050 | | | | |
| Iron | 4.9 | 5.4- 14 | | | | |
| Germanium | 0.024 | 0.045- 0.065 | | | | |
| Rubidium | 0.009 | 0.007- 0.096 | | | | |
| Zirconium | 0.060 | 0.020- 0.42 | | | | |

| SPECIMEN DATA | | | | RATIOS | | |
|------------------|-----------|--------------|---------|-----------------|---------------|-----------------------|
| COMMENTS: | | | | ELEMENTS | RATIOS | EXPECTED RANGE |
| Date Collected: | 7/12/2008 | Sample Size: | 0.203 g | Ca/Mg | 26.2 | 4- 30 |
| Date Received: | 7/21/2008 | Sample Type: | Head | Ca/P | 1.61 | 1- 12 |
| Date Completed: | 7/24/2008 | Hair Color: | Brown | Na/K | 0.429 | 0.5- 10 |
| Methodology: | ICP-MS | Treatment: | | Zn/Cu | 16.9 | 4- 20 |
| | | Shampoo: | | Zn/Cd | > 999 | > 800 |

V06.99

HAIR ELEMENTS

POTENTIALLY TOXIC ELEMENTS

| TOXIC ELEMENTS | RESULT µg/g | REFERENCE RANGE | PERCENTILE | | |
|----------------------------|----------------|-----------------|------------------|------------------|--|
| | | | 68 th | 95 th | |
| Aluminum | 3.1 | < 7.0 | ██████████ | | |
| Antimony | 0.011 | < 0.050 | ● | | |
| Arsenic | 0.046 | < 0.060 | ██████████ | | |
| Barium | 0.22 | < 2.0 | ████ | | |
| Beryllium | < 0.01 | < 0.020 | | | |
| Bismuth | 0.030 | < 2.0 | ● | | |
| Cadmium | < 0.009 | < 0.050 | | | |
| Lead | 0.33 | < 0.60 | ██████████ | | |
| Mercury | 0.33 | < 0.80 | ██████████ | | |
| Platinum | < 0.003 | < 0.005 | | | |
| Thallium | < 0.001 | < 0.002 | | | |
| Thorium | < 0.001 | < 0.002 | | | |
| Uranium | 0.018 | < 0.060 | ████ | | |
| Nickel | 0.03 | < 0.30 | ██ | | |
| Silver | 0.23 | < 0.15 | ██████████ | | |
| Tin | 0.04 | < 0.30 | ██ | | |
| Titanium | 0.34 | < 0.70 | ██████████ | | |
| Total Toxic Representation | | | ██████████ | | |

ESSENTIAL AND OTHER ELEMENTS

| ELEMENTS | RESULT µg/g | REFERENCE RANGE | PERCENTILE | | | | | |
|------------|----------------|-----------------|-------------------|------------------|------------------|------------------|--------------------|--|
| | | | 2.5 th | 16 th | 50 th | 84 th | 97.5 th | |
| Calcium | 155 | 300- 1200 | | ██████████ | | | | |
| Magnesium | 8 | 35- 120 | | ██████████ | | | | |
| Sodium | 6 | 20- 250 | | ██████████ | | | | |
| Potassium | 3 | 8- 75 | | ██████████ | | | | |
| Copper | 28 | 11- 37 | | | ██████████ | | | |
| Zinc | 150 | 140- 220 | | | ██████████ | | | |
| Manganese | 0.03 | 0.08- 0.60 | | ██████████ | | | | |
| Chromium | 0.43 | 0.40- 0.65 | | | ██████████ | | | |
| Vanadium | 0.023 | 0.018- 0.065 | | | ██████████ | | | |
| Molybdenum | 0.029 | 0.020- 0.050 | | | ██ | | | |
| Boron | 0.10 | 0.25- 1.5 | | ██████████ | | | | |
| Iodine | 0.47 | 0.25- 1.8 | | | ██ | | | |
| Lithium | < 0.004 | 0.007- 0.020 | | ██████████ | | | | |
| Phosphorus | 193 | 150- 220 | | | ██████████ | | | |
| Selenium | 0.66 | 0.55- 1.1 | | | ██████████ | | | |
| Strontium | 0.14 | 0.50- 7.6 | | ██████████ | | | | |
| Sulfur | 46100 | 44000- 50000 | | | ██████████ | | | |
| Cobalt | 0.003 | 0.005- 0.040 | | ██████████ | | | | |
| Iron | 7.5 | 7.0- 16 | | | ██████████ | | | |
| Germanium | 0.024 | 0.030- 0.040 | | ██████████ | | | | |
| Rubidium | 0.010 | 0.007- 0.096 | | | ██████████ | | | |
| Zirconium | 0.021 | 0.020- 0.42 | | | ██████████ | | | |

SPECIMEN DATA

COMMENTS:
 Date Collected: 12/18/2010 Sample Size: 0.196 g
 Date Received: 12/30/2010 Sample Type: Head
 Date Completed: 12/31/2010 Hair Color: Blond
 Client Reference: 4559 Treatment:
 Methodology: ICP-MS Shampoo: Neutral

RATIOS

| ELEMENTS | RATIOS | EXPECTED RANGE |
|----------|--------|----------------|
| Ca/Mg | 19.4 | 4- 30 |
| Ca/P | 0.803 | 1- 12 |
| Na/K | 2 | 0.5- 10 |
| Zn/Cu | 5.36 | 4- 20 |
| Zn/Cd | > 999 | > 800 |

V010.08

Health history for hair test 208

1) What are your current symptoms and health history?

I have been chelating for two years. One month on 25 and up to 50 mg DMSA. Then started with 100mg DMSA. After three mounts added ALA up to 100mg. Always every 3 hour,4 at night, 3 days on,3 days off. Fatigue, some dizziness, low thyroid and some low adrenal function, still problems cognitive.

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

Two wisdom removed, no root canals. Braces at ca,11 years old to 14 years old. Nut sure, I guess 6 years old.

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

I am finished.

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

No, she was not at the dentist at all!

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

I had two shots for the (hjernehinnebetennelse) (Brain tissue inflammation) I am so sorry, I do not know the correct English word. I am from Norway. No flu and travel shots. Regular shots when I was a child as everyone.

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

B50 one, Vit C 1000mg 3, Zinc 40mg one,50 mg magnesium one or two. Cipramil 10mg (antidep)

7) Other information you feel may be relevant?

no

8) What is your location - city & country (so that we can learn where certain toxins are more prevalent). Trondheim, Norway.