

# Micro Trace Minerals Laboratoire

Laboratoire médecine environnementale

Röhrenstrasse 20, 91217 Hersbruck, Germany  
P.O.Box 4613; Boulder, CO 80306-4613, USA

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http://www.microtrace.de  
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Analyse Minerale			Les cheveux de l'enfant	
			Numero	3KH135502
Docteur			Date d'essai	11/06/2013
Nom du client			Sexe	m
l'information clinique			d.d.n.	27/02/2010
			page	1/3
Zone de référence		Valeur		
<b>Oligoéléments essentiels (ppm = mg/kg = mcg/g)</b>				
Chrome	0,02 --- 0,15	0,10		
Cobalt	< 0,15	0,02		
Cuivre	6,70 --- 37,00	25,42		
Fer	7,70 --- 15,00	8,28		
Iode	0,15 --- 3,50	0,07	↓	
Manganèse	0,07 --- 0,50	0,49		
Molybdène	0,02 --- 1,00	0,04		
Sélénium	0,40 --- 1,40	0,94		
Vanadium	0,01 --- 0,15	0,02		
Zinc	110,00 --- 227,00	164,91		
<b>Eléments essentiels (ppm = mg/kg = mcg/g)</b>				
Calcium	200,00 --- 850,00	616,58		
Magnésium	20,00 --- 115,00	39,26		
<b>Oligoéléments non essentiels (ppm = mg/kg = mcg/g)</b>				
Bore	< 2,00	0,54		
Germanium	< 0,50	0,00		
Lithium	< 0,20	0,00		
Strontium	0,11 --- 4,28	1,52		
Tungstène	< 0,02	0,00		
<b>Eléments toxiques (ppm = mg/kg = mcg/g = mcg/g)</b>				
Aluminium	< 8,00	7,41		
Antimoine	< 0,20	0,15		

n.n. = pas détecté

Accreditation: DIN EN ISO 17025; Contrôle de qualité: Dipl. Ing. Friedle, Ing. J. Merz, Dr Rauland PhD; Validation: Dr E. Blaurock-Busch PhD, laboratoire Docteur: Dr med. A. Schönberger

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## Analyse Minerale

## Les cheveux de l'enfant

Nom du client	Numero		3KH135502	page	2/3
	Zone de référence	Valeur			
<b>Eléments toxiques (ppm = mg/kg = mcg/g = mcg/g)</b>					
Argent	< 1,00	0,09			
Arsenic total	< 0,20	0,08			
Baryum	< 2,65	1,24			
Béryllium	< 0,03	< 0,01			
Bismuth	< 0,18	< 0,01			
Cadmium	< 0,20	0,03			
Cérium	< 0,05	0,03			
Césium	< 0,01	< 0,01			
Dysprosium	< 0,01	< 0,00			
Erbium	< 0,01	< 0,00			
Étain	< 0,93	0,32			
Europium	< 0,01	< 0,00			
Gadolinium	< 0,01	< 0,00			
Gallium	< 0,07	0,05			
Iridium	< 0,01	n.n.			
Lanthane	< 0,02	0,02	↑		
Lutécium	< 0,01	< 0,00			
Mercure	< 0,30	0,27			
Nickel	< 0,85	0,16			
Palladium	< 0,10	< 0,05			
Platine	< 0,07	n.n.			
Plomb	< 3,00	2,17			
Praseodymium	< 0,01	< 0,01			

n.n. = pas détecté

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## Analyse Minerale

## Les cheveux de l'enfant

Nom du client	Numero		3KH135502	page	3/3
	Zone de référence	Valeur			
<b>Eléments toxiques (ppm = mg/kg = mcg/g = mcg/g)</b>					
Rhénium	< 0,01	< 0,01			
Rhodium	< 0,01	n.n.			
Ruthénium	< 0,32	n.n.			
Samarium	< 0,01	< 0,00			
Tantale	< 0,01	n.n.			
Tellurium	< 0,01	< 0,01			
Thallium	< 0,01	< 0,00			
Thorium	< 0,01	n.n.			
Thulium	< 0,01	< 0,00			
Titane	< 0,65	0,28			
Uranium	< 0,10	0,06			
Ytterbium	< 0,01	< 0,00			
Zirconium	< 1,47	< 0,05			

n.n. = pas détecté

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SEX: Male  
AGE: 7

REFER to  
YOUR  
DOCTOR as ALWAYS

CLIENT #: 39238  
DOCTOR: , MD  
Neurological Research Institute Llc  
279 Walkers Mills Rd  
Bethel, ME 04217 U.S.A.

## Toxic & Essential Elements; Hair

Suggestions for your consideration.  
As always, work with your Doctor.  
With love & hope, Dr. Amy

TOXIC METALS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE
			68 <sup>th</sup> 95 <sup>th</sup>
I would also run 2 CSA = GM			
Aluminum (Al)	5.6	< 8.0	██████████ Metal Away
Antimony (Sb)	0.034	< 0.066	██████████ + ATP
Arsenic (As)	0.022	< 0.080	██████████ + MTHF Liver
Barium (Ba)	0.35	< 0.75	██████████ Caps
Beryllium (Be)	< 0.01	< 0.020	
Bismuth (Bi)	< 0.002	< 2.0	
Cadmium (Cd)	< 0.009	< 0.070	
Lead (Pb)	1.3	< 1.0	██████████ Extra
Mercury (Hg)	0.13	< 0.40	██████████ + extra as needed
Platinum (Pt)	< 0.003	< 0.005	██████████ + EDTA Soap
Thallium (Tl)	< 0.001	< 0.002	
Thorium (Th)	0.001	< 0.002	
Uranium (U)	0.014	< 0.060	██████████ ATP + Ribosyl phosph
Nickel (Ni)	0.07	< 0.20	██████████ + CoQ10 spray
Silver (Ag)	0.03	< 0.14	██████████ +
Tin (Sn)	0.06	< 0.30	██████████ Mitofore
Titanium (Ti)	0.31	< 0.70	██████████
Total Toxic Representation			██████████ Inflammatory

All in One + Be Calm + BioNaturals  
+ PS/PPA + DHA  
+ Methylation nuc. blend

Pathway Caps +  
Ultrasol +  
General nuc. blend



SEX: Male  
AGE: 7

*AS ALWAYS*  
Suggestions for your consideration.  
As always, work with your Doctor.  
With love & hope, Dr. Amy

*Refer to your doctor*

CLIENT #: 39238  
DOCTOR: , MD  
Neurological Research Institute Llc  
279 Walkers Mills Rd  
Bethel, ME 04217 U.S.A.

ESSENTIAL AND OTHER ELEMENTS

	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE				
			2.5 <sup>th</sup>	16 <sup>th</sup>	50 <sup>th</sup>	84 <sup>th</sup>	97.5 <sup>th</sup>
Calcium (Ca)	270	160- 500					
Magnesium (Mg)	37	12- 50					Magnesium
Sodium (Na)	7	20- 200					Potassium
Potassium (K)	5	12- 140					
Copper (Cu)	18	11- 32					ATP +
Zinc (Zn)	230	110- 190					Mitofore Zinc
Manganese (Mn)	0.25	0.08- 0.50					
Chromium (Cr)	0.35	0.40- 0.70					FOR cap
Vanadium (V)	0.017	0.025- 0.10					
Molybdenum (Mo)	0.025	0.040- 0.090					Molybdenum
Boron (B)	4.1	0.50- 3.5					
Iodine (I)	0.27	0.25- 1.3					
Lithium (Li)	< 0.004	0.007- 0.020					work with your doctor on childrens liquid lithium
Phosphorus (P)	133	150- 220					+ Vit D spray + ATP + Ribos
Selenium (Se)	1.4	0.70- 1.1					phos
Strontium (Sr)	0.45	0.21- 2.1					ALONG WITH
Sulfur (S)	48400	44000- 51000					All in One +
Cobalt (Co)	0.006	0.004- 0.020					Be calm +
Iron (Fe)	6.1	7.0- 16					BioNatures
Germanium (Ge)	0.034	0.030- 0.040					minerals
Rubidium (Rb)	0.011	0.008- 0.080					
Zirconium (Zr)	0.013	0.060- 0.70					Liver nuc. bleed + MTHF liver cap

*I would also recommend CSA & GM*

*work with your doctor on childrens liquid lithium*

*doctor on childrens liquid lithium*

*ALONG WITH*

*All in One +*

*Be calm +*

*BioNatures*

*minerals*

*Liver nuc. bleed + MTHF liver cap*

*Work on lithium + short cut methylation + energy supports THEN recheck lithium in 3-4 months*



SEX: Male  
AGE: 7

CLIENT #: 39238  
DOCTOR: , MD  
Neurological Research Institute Llc  
279 Walkers Mills Rd  
Bethel, ME 04217 U.S.A.

### Toxic & Essential Elements; Hair

TOXIC METALS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 <sup>th</sup> 95 <sup>th</sup>
Aluminum (Al)	5.6	< 8.0	
Antimony (Sb)	0.034	< 0.066	
Arsenic (As)	0.022	< 0.080	
Barium (Ba)	0.35	< 0.75	
Beryllium (Be)	< 0.01	< 0.020	
Bismuth (Bi)	< 0.002	< 2.0	
Cadmium (Cd)	< 0.009	< 0.070	
Lead (Pb)	1.3	< 1.0	
Mercury (Hg)	0.13	< 0.40	
Platinum (Pt)	< 0.003	< 0.005	
Thallium (Tl)	< 0.001	< 0.002	
Thorium (Th)	0.001	< 0.002	
Uranium (U)	0.014	< 0.060	
Nickel (Ni)	0.07	< 0.20	
Silver (Ag)	0.03	< 0.14	
Tin (Sn)	0.06	< 0.30	
Titanium (Ti)	0.31	< 0.70	
Total Toxic Representation			

ESSENTIAL AND OTHER ELEMENTS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 2.5 <sup>th</sup> 16 <sup>th</sup> 50 <sup>th</sup> 84 <sup>th</sup> 97.5 <sup>th</sup>
Calcium (Ca)	270	160- 500	
Magnesium (Mg)	37	12- 50	
Sodium (Na)	7	20- 200	
Potassium (K)	5	12- 140	
Copper (Cu)	18	11- 32	
Zinc (Zn)	230	110- 190	
Manganese (Mn)	0.25	0.08- 0.50	
Chromium (Cr)	0.35	0.40- 0.70	
Vanadium (V)	0.017	0.025- 0.10	
Molybdenum (Mo)	0.025	0.040- 0.090	
Boron (B)	4.1	0.50- 3.5	
Iodine (I)	0.27	0.25- 1.3	
Lithium (Li)	< 0.004	0.007- 0.020	
Phosphorus (P)	133	150- 220	
Selenium (Se)	1.4	0.70- 1.1	
Strontium (Sr)	0.45	0.21- 2.1	
Sulfur (S)	48400	44000- 51000	
Cobalt (Co)	0.006	0.004- 0.020	
Iron (Fe)	6.1	7.0- 16	
Germanium (Ge)	0.034	0.030- 0.040	
Rubidium (Rb)	0.011	0.008- 0.080	
Zirconium (Zr)	0.013	0.060- 0.70	

SPECIMEN DATA		RATIOS		
<b>COMMENTS:</b>		<b>ELEMENTS</b>	<b>RATIOS</b>	<b>RANGE</b>
Date Collected: 12/27/2017	Sample Size: 0.201 g	Ca/Mg	7.3	4- 30
Date Received: 01/16/2018	Sample Type: Head	Ca/P	2.03	0.8- 8
Date Completed: 01/17/2018	Hair Color: Brown	Na/K	1.4	0.5- 10
Methodology: ICP/MS	Treatment:	Zn/Cu	12.8	4- 20
	Shampoo: Laroche	Zn/Cd	> 999	> 800

*Refer to your doctor*

Toxic & Essential Elements; Hair

TOXIC METALS				PERCENTILE	
		RESULT µg/g	REFERENCE INTERVAL	68 <sup>th</sup>	95 <sup>th</sup>
Aluminum	(Al)	4.1	< 8.0	██████████	██████████
Antimony	(Sb)	< 0.01	< 0.066	██████████	██████████
Arsenic	(As)	0.022	< 0.080	██████████	██████████
Barium	(Ba)	1.2	< 0.75	██████████	██████████
Beryllium	(Be)	< 0.01	< 0.020	██████████	██████████
Bismuth	(Bi)	0.010	< 2.0	██████████	██████████
Cadmium	(Cd)	< 0.009	< 0.070	██████████	██████████
Lead	(Pb)	1.2	< 1.0	██████████	██████████
Mercury	(Hg)	0.05	< 0.40	██████████	██████████
Platinum	(Pt)	< 0.003	< 0.005	██████████	██████████
Thallium	(Tl)	< 0.001	< 0.002	██████████	██████████
Thorium	(Th)	0.001	< 0.002	██████████	██████████
Uranium	(U)	0.022	< 0.060	██████████	██████████
Nickel	(Ni)	0.09	< 0.20	██████████	██████████
Silver	(Ag)	0.47	< 0.14	██████████	██████████
Tin	(Sn)	0.06	< 0.30	██████████	██████████
Titanium	(Ti)	0.35	< 0.70	██████████	██████████
Total Toxic Representation				██████████	██████████

*Metal Away + ATP + EDTA soap*

*MTHFR-LIVE*

*Potassium + Mitoforce*

*+ Full Methylation*

*Zinc*

*ATP + GBL + Ribo 5 phos*

*+ Mitoforce*

*Ribo 5 phos + Run 2 CSA + GBL*

*Inflammatory Pathway Caps + Nerve + General Comfort + Nerv. blends*

ESSENTIAL AND OTHER ELEMENTS								
		RESULT µg/g	REFERENCE INTERVAL	PERCENTILE				
				2.5 <sup>th</sup>	16 <sup>th</sup>	50 <sup>th</sup>	84 <sup>th</sup>	97.5 <sup>th</sup>
Calcium	(Ca)	685	160- 500					
Magnesium	(Mg)	37	12- 50					<i>Magnesium</i>
Sodium	(Na)	180	20- 200					
Potassium	(K)	100	12- 140					<i>Potassium</i>
Copper	(Cu)	13	11- 32					<i>Cell Food</i>
Zinc	(Zn)	190	110- 190					<i>Zinc</i>
Manganese	(Mn)	0.22	0.08- 0.50					
Chromium	(Cr)	0.27	0.40- 0.70					<i>FOR CR</i>
Vanadium	(V)	0.027	0.025- 0.10					<i>+ 1-2 drops chromium</i>
Molybdenum	(Mo)	0.065	0.040- 0.090					<i>Molybdenum +</i>
Boron	(B)	3.2	0.50- 3.5					<i>Black Bear</i>
Iodine	(I)	0.21	0.25- 1.3					<i>RUN 2 UI</i>
Lithium	(Li)	0.012	0.007- 0.020					
Phosphorus	(P)	137	150- 220					<i>ATP + Ribos</i>
Selenium	(Se)	1.6	0.70- 1.1					<i>phos</i>
Strontium	(Sr)	1.4	0.21- 2.1					
Sulfur	(S)	48000	44000- 51000					<i>to help with</i>
Cobalt	(Co)	0.031	0.004- 0.020					<i>See Supps</i>
Iron	(Fe)	7.8	7.0- 16					<i>transp</i>
Germanium	(Ge)	0.032	0.030- 0.040					
Rubidium	(Rb)	0.098	0.008- 0.080					<i>ATP +</i>
Zirconium	(Zr)	0.008	0.060- 0.70					<i>Potassium</i>

*Okay to use Full Methylation while working on suggestions*

*Liver nuc bleed + MTHFR Liver Caps*



**Toxic & Essential Elements; Hair**

TOXIC METALS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 <sup>th</sup> 95 <sup>th</sup>
Aluminum (Al)	4.1	< 8.0	
Antimony (Sb)	< 0.01	< 0.066	
Arsenic (As)	0.022	< 0.080	
Barium (Ba)	1.2	< 0.75	
Beryllium (Be)	< 0.01	< 0.020	
Bismuth (Bi)	0.010	< 2.0	
Cadmium (Cd)	< 0.009	< 0.070	
Lead (Pb)	1.2	< 1.0	
Mercury (Hg)	0.05	< 0.40	
Platinum (Pt)	< 0.003	< 0.005	
Thallium (Tl)	< 0.001	< 0.002	
Thorium (Th)	0.001	< 0.002	
Uranium (U)	0.022	< 0.060	
Nickel (Ni)	0.09	< 0.20	
Silver (Ag)	0.47	< 0.14	
Tin (Sn)	0.06	< 0.30	
Titanium (Ti)	0.35	< 0.70	
Total Toxic Representation			

ESSENTIAL AND OTHER ELEMENTS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 2.5 <sup>th</sup> 16 <sup>th</sup> 50 <sup>th</sup> 84 <sup>th</sup> 97.5 <sup>th</sup>
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Sodium (Na)	180	20- 200	
Potassium (K)	100	12- 140	
Copper (Cu)	13	11- 32	
Zinc (Zn)	190	110- 190	
Manganese (Mn)	0.22	0.08- 0.50	
Chromium (Cr)	0.27	0.40- 0.70	
Vanadium (V)	0.027	0.025- 0.10	
Molybdenum (Mo)	0.065	0.040- 0.090	
Boron (B)	3.2	0.50- 3.5	
Iodine (I)	0.21	0.25- 1.3	
Lithium (Li)	0.012	0.007- 0.020	
Phosphorus (P)	137	150- 220	
Selenium (Se)	1.6	0.70- 1.1	
Strontium (Sr)	1.4	0.21- 2.1	
Sulfur (S)	48000	44000- 51000	
Cobalt (Co)	0.031	0.004- 0.020	
Iron (Fe)	7.8	7.0- 16	
Germanium (Ge)	0.032	0.030- 0.040	
Rubidium (Rb)	0.098	0.008- 0.080	
Zirconium (Zr)	0.008	0.060- 0.70	

COMMENTS:	SPECIMEN DATA		RATIOS	
	ELEMENTS	RATIOS	RANGE	
Date Collected: 06/08/2018	Ca/Mg	18.5	4- 30	
Date Received: 06/28/2018	Ca/P	5	0.8- 8	
Date Completed: 07/03/2018	Na/K	1.8	0.5- 10	
Methodology: ICP/MS	Zn/Cu	14.6	4- 20	
	Zn/Cd	> 999	> 800	

## **Health history for hair test 1038**

my nearly 5 ASD son was tested with a german hair testing in 2013, it is not specifically adapted to apply Cutler's counting rules, but I hope you can have a look at it, please. If you need some translation for the items, it was sent in French (FER = IRON, CUIVRE=COPPER, ARGENT=SILVER..... just tell me most are quite close visually)

- 1) What are your current symptoms and health history? Simon was diagnosed with ASD at age 2,5
- 2) Dental history (wisdom teeth removed? First root canal placed? Braces? First amalgam etc...) not concerned
- 3) What dental work do you currently have in place? What part of the dental cleanup have you completed?not concerned
- 4) What dentistry did your mother have at any time before or during pregnancy? a long time before pregnancy, in 2003, replacement of amalgams 11 (probably toxic fillings)
- 5) What vaccinations have you had and when (including flu and especially travel shots)? too many vaccinations: BCG vaccine, MMR, hepatitis b, tuberculosis, tetanos, dyphtery, Poliomyelitis, pneumocoque, even another one categorized in "other vaccines ".....
- 6) Supplements and medications (including dosages) taken at time of hair test, or for the 3-6 months before the sample was taken. he had a one month or so course of ATX (Azytromycin, Fluconazole, flagyl) at the time of the test, between m  
March and June 2013
- 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). I live 43 km away from a nuclear central in Elsass (East of France, close to Germany)

Hello,

I need some help to interpret my son hair test. We've already started to chelate with Andy Cutler's protocol since [October 23](#), we finished round 10 with ALA only because he had viruses issues in August, which drove him to hospital a few days. He is improving a lot, especially with motor tics and sensory issues, no more of this or so. I've tried counting rules on his test, I don't know if I'm correct but I think he meets the counting rules:

**#1= 7, #2=15, #3=5, #4=10, #5=#3+#4**

**Could you please tell me what you see ?**

**Thanks a lot in advance**