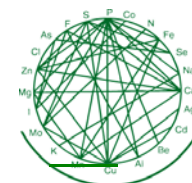


MICRO TRACE MINERALS GmbH

environmental & clinical laboratory



Röhrenstrasse 20 D-91217 Hersbruck
USA. P.O.Box 4613; Boulder, Co 80306-4613

Telefax: +49 (0) 9151/2306
Telefon: +49 (0) 9151/4332

<http://www.microtrace.de>;
service@microtrace.de

MINERAL ANALYSIS		Hair		Lab Number 1H108511	
Doctor	Dr. Busby	Test Date		12. Jan. 11	
Patient Name	12M	Age	-	Sex	m
Clinical Information					

Essential Macroelements (ppm = mg/kg = mcg/g)	Low	Acceptable Range	High
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Acceptable Range Test Value

Calcium	220.00 -- 1600.0	589.47	*****
Magnesium	20.00 -- 130.00	44.6	*****

Essential Trace Elements (ppm = mg/kg = mcg/g)	Low	Acceptable Range	High
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Acceptable Range Test Value

Chromium	0.03 -- 0.68	0.04	*****
Cobalt	0.02 -- 0.57	0.01 Low	*****
Copper	10.00 -- 41.00	19.92	*****
Iodine	0.05 -- 5.00	0.54	*****
Iron	4.60 -- 17.70	11.69	*****
Manganese	0.12 -- 1.30	0.2	*****
Molybdenum	0.02 -- 1.00	0.05	*****
Selenium	0.21 -- 5.46	0.79	*****
Vanadium	0.01 -- 0.73	0.03	*****
Zinc	150.00 -- 272.00	182.23	*****

Nonessential Trace Elements (ppm = mg/kg)	Low	Acceptable Range	High
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Acceptable Range Test Value

Boron	0.07 -- 9.00	0.59	*****
Germanium	< 1.65	n.n.	<
Lithium	< 0.53	0.01	*****
Strontium	0.65 -- 6.90	2.78	*****
Tungsten	< 0.06	n.n.	<

Potentially Toxic Elements (ppm = mg/kg = mcg/g)		Acceptable Range	High
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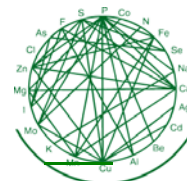
Acceptable Range Test Value

Aluminum	< 8.00	6.93	*****
Antimony	< 0.60	0.01	*****
Arsenic-total	< 1.00	0.1	*****
Barium	< 4.64	0.24	*****
Beryllium	< 0.20	n.n.	<
Bismuth	< 0.27	8.18 High	*****

n.n. = not detected

These 95percentile Reference Ranges listed above are representative for a healthy population. All elements are tested quantitatively.

Accreditation: DIN EN ISO 17025; Quality control: Dr. Rauland PhD; Validation: Dr E.Blaurock-Busch PhD



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Potentially Toxic Elements (ppm = mg/kg = mcg/g)		Acceptable Range	High
--	--	------------------	------

Acceptable Range Test Value

Element	Acceptable Range	Test Value	Comparison
Cadmium	< 0.20	0.02	*****
Cerium	< 0.10	0.01	*****
Cesium 133	< 0.01	n.n.	<
Dysprosium	< 0.01	n.n.	<
Erbium	< 0.01	n.n.	<
Europium	< 0.01	n.n.	<
Gadolinium	< 0.02	n.n.	<
Gallium	< 0.22	n.n.	<
Iridium	< 0.01	n.n.	<
Lead	< 3.00	1.01	*****
Lutetium	< 0.01	n.n.	<
Mercury	< 0.60	6.91 High	*****
Nickel	< 1.00	0.1	*****
Palladium	< 0.04	0.03	*****
Platinum	< 0.01	n.n.	<
Praseodymium	< 0.01	n.n.	<
Rhenium	< 0.00	n.n.	<
Rhodium	< 0.01	n.n.	<
Ruthenium	< 0.45	n.n.	<
Samarium	< 0.01	n.n.	<
Silver	< 1.00	0.01	*****
Tantalum	< 0.01	0.01	*****
Tellurium	< 0.02	n.n.	<
Thallium	< 0.01	n.n.	<
Thorium	< 0.03	n.n.	<
Thullium	< 0.00	n.n.	<
Tin	< 0.70	0.05	*****
Titanium	< 2.20	0.29	*****
Uranium	< 0.15	0.05	*****
Ytterbium	< 0.01	n.n.	<
Zirconium	< 1.47	0.45	*****

n.n. = not detected

These 95percentile Reference Ranges listed above are representative for a healthy population. All elements are tested quantitatively.

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