

Micro Trace Minerals Laboratory

environmental & clinical laboratory

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



MINERAL ANALYSIS			Nail		
			Lab Number		
Doctor/Clinic				Test Date	2/28/2020
Patient Name		Mollie	Sex	f	D.O.B.
Clinical Information				Page	1/4
	Acceptable Range	Test Value			
Essential Trace Elements (ppm = mg/kg = mcg/g)					
Chromium (Cr)	0.100 --- 1.400	0.532			
Cobalt (Co)	0.010 --- 0.292	0.014			
Copper (Cu)	4.450 --- 17.400	8.105			
Iodine (I)	0.030 --- 3.700	n.n.	↓		
Iron (Fe)	7.000 --- 77.000	26.079			
Manganese (Mn)	0.082 --- 1.450	1.016			
Molybdenum (Mo)	0.010 --- 0.150	0.011			
Selenium (Se)	0.700 --- 3.000	1.221			
Vanadium (V)	0.009 --- 0.210	0.038			
Zinc (Zn)	80.000 --- 220.000	104.553			
Essential Macroelements (ppm = mg/kg = mcg/g)					
Calcium (Ca)	550.000 --- 1,850.000	613.382			
Magnesium (Mg)	58.000 --- 197.000	158.064			
Nonessential Trace Elements (ppm = mg/kg = mcg/g)					
Boron (B)	< 2.100	0.586			
Germanium (Ge)	< 0.280	0.004			
Lithium (Li)	< 0.120	0.117			
Strontium (Sr)	0.300 --- 3.000	1.246			
Tungsten (W)	< 0.034	0.001			
Potentially Toxic Elements (ppm = mg/kg = mcg/g)					
Aluminum (Al)	< 70.000	35.700			
Antimony (Sb)	< 1.000	0.042			

n.n. = not detected, < x = below Detection Limit

Quality control: Dipl. Ing. Friedle, Accreditation: DIN EN ISO 17025; Validation: Dr. E. Blaurock-Busch PhD

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Potentially Toxic Elements (ppm = mg/kg = mcg/g)						
Arsenic-total (As)	< 0.870	0.135				
Barium (Ba)	< 4.000	0.883				
Beryllium (Be)	< 0.028	< 0.010				
Bismuth (Bi)	< 3.140	0.018				
Cadmium (Cd)	< 0.140	0.056				
Cerium (Ce)	< 0.260	0.253				
Cesium (Cs)	< 0.010	< 0.005				
Dysprosium (Dy)	< 0.010	0.006				
Erbium (Er)	< 0.004	0.003				
Europium (Eu)	< 0.010	0.002				
Gadolinium (Gd)	< 0.020	0.010				
Gallium (Ga)	< 0.120	0.012				
Iridium (Ir)	< 0.005	n.n.				
Lanthanum (La)	< 0.300	0.078				
Lead (Pb)	< 2.000	0.262				
Lutetium (Lu)	< 0.008	< 0.001				
Mercury (Hg)	< 0.740	< 0.020				
Nickel (Ni)	< 5.000	0.779				
Palladium (Pd)	< 0.080	n.n.				
Platinum (Pt)	< 0.020	< 0.005				
Praseodymium (Pr)	< 0.040	0.017				
Rhenium (Re)	< 0.005	< 0.005				
Rhodium (Rh)	< 0.005	n.n.				

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Potentially Toxic Elements (ppm = mg/kg = mcg/g)						
Ruthenium (Ru)	< 0.009	< 0.001				
Samarium (Sm)	< 0.010	0.012	↑			
Silver (Ag)	< 1.500	0.012				
Tantalum (Ta)	< 0.029	< 0.001				
Tellurium (Te)	< 0.010	< 0.010				
Thallium (Tl)	< 0.020	< 0.001				
Thorium (Th)	< 0.030	0.023				
Thulium (Tm)	< 0.002	< 0.001				
Tin (Sn)	< 3.800	0.770				
Titanium (Ti)	< 6.000	0.839				
Uranium (U)	< 0.020	0.018				
Ytterbium (Yb)	< 0.010	0.003				
Zirconium (Zr)	< 2.800	0.181				

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