Micro Trace Minerals Laboratory

environmental & clinical laboratory

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MINERAL ANALYSIS — Test Value Comparison

Doctor	-			Compare No.	312
Patient Name	-	Sex	w	Age	50
Clinical Information	DMPS i.v. Unithiol 1 Std.			Page	1/2

	Baseline URINE Norm	Chelator-specific orientation range	2UR104179 6/28/2010	2UR104777 7/22/2010	2UP123493 4/26/2012	2UP131759 2/11/2013
Creatinine (g/l) *			0.30	0.46	0.30	0.77
Essential Trace Elements (mcg/g Creatinine)						
Chromium	0.55 --- 4.83		1.58	0.66	0.32	0.89
Cobalt	< 5.00		1.38	1.44	0.56	6.87
Copper	1.45 --- 60.00		1,032.19	1,079.77	1,043.03	975.34
Iron	12.10 --- 131.00		19.49	10.96	36.51	11.23
Manganese	< 4.50		6.71	5.05	7.02	3.24
Molybdenum	9.70 --- 100.00		44.26	25.47	14.83	32.78
Selenium	12.00 --- 90.00		20.03	22.62	16.77	19.07
Vanadium	< 1.40		0.78	0.56	0.21	0.35
Essential Macro- & TraceElements (mg/g Creatinine)						
Calcium	55.00 --- 245.00		180.96	216.86	167.35	116.77
Magnesium	12.00 --- 150.00		80.47	75.20	79.38	69.91
Zinc	0.07 --- 7.00		2.33	3.59	3.90	3.87
Trace Elements in mcg/g Creatinine						
Germanium	< 1.50		0.44	0.56	1.18	0.75
Lithium	< 175.00		23.36	66.98	28.90	29.84
Strontium	< 570.00		139.87	248.15	122.24	114.12
Tungsten	< 0.79		n.n.	n.n.	0.03	0.05
Potentially Toxic Elements in mcg/g Creatinine						
Aluminum	< 40.00		46.20	23.39	10.64	11.17
Antimony	< 1.00		0.25	0.47	0.31	0.74
Arsenic-total	< 15.00		15.20	14.23	52.99	49.79
Barium	< 8.22		8.11	33.62	2.02	2.75
Beryllium	< 1.20		0.38	0.35	0.04	0.06
Bismuth	< 0.15		n.n.	n.n.	0.01	0.27
Cadmium	< 0.80		0.78	0.58	0.84	0.69
Cesium	< 11.00		10.51	10.57	7.69	8.23
Gallium	< 7.76		0.80	0.75	0.10	0.10
Lead	< 5.00		13.56	13.97	22.70	25.67
Mercury	< 1.00		13.63	10.69	10.95	62.67
Nickel	< 3.00		7.97	10.50	5.81	7.76
Palladium	< 1.40		2.93	1.94	2.04	0.08
Platinum	< 0.60		0.35	0.01	n.n.	n.n.
Silver	< 1.40		0.47	0.62	0.33	0.08
Thallium	< 0.60		0.40	0.21	0.34	0.26
Tin	< 5.00		1.78	1.47	1.53	2.48

n.n. = not detected
< DL = below Detection Limit
Accreditation: DIN EN ISO 17025; Quality control: Dipl. Ing. Friedle, Ing. J. Merz, Dr. Rauland; Validation: Dr. E.Blaurock-Busch PhD, Laboratory physician: Dr. med. A. Schönberger

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MINERAL ANALYSIS — Test Value Comparison

Patient Name	-	Lab Number	2UP131759	Page	2/2

	Baseline URINE Norm	Chelator-specific orientation range	2UR104179 6/28/2010	2UR104777 7/22/2010	2UP123493 4/26/2012	2UP131759 2/11/2013
Titanium	< 13.00		9.92	10.99	2.31	1.21
Uranium	< 0.06		n.n.	n.n.	0.00	0.01
Zirconium	< 2.50		n.n.	n.n.	n.n.	0.03

Legend:

UP = DMPS Urine	UR = Urine Provocation

n.n. = not detected
< DL = below Detection Limit
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