

Urine Toxic and Essential Elements

Urine Elements are traditionally used to evaluate exposure to potentially toxic elements and wasting of nutrient elements. Toxic metals do not have any useful physiological function. Instead, they adversely affect virtually every organ system and disrupt the homeostasis of nutrient elements.

Additionally, the comparison of urine element concentrations before and after administration of a chelator can be used to estimate net retention of potentially toxic elements. Subsequent urine element analyses, also following the administration of a chelator, are useful for monitoring the efficacy of metal detoxification therapy. Results are expressed per 24 hours or creatinine corrected to account for urine dilution effects.



LAB #: U000000-0000-0
 PATIENT: Sample Patient
 ID: PATIENT-S-00001
 SEX: Female
 AGE: 61

CLIENT #: 12345
 DOCTOR:
 Doctor's Data, Inc.
 3755 Illinois Ave.
 St. Charles, IL 60174

Toxic Metals; Urine

TOXIC METALS					
		RESULT µg/g creat	REFERENCE INTERVAL	WITHIN REFERENCE	OUTSIDE REFERENCE
Aluminum	(Al)	210	< 35		
Antimony	(Sb)	0.5	< 0.4		
Arsenic	(As)	40	< 117		
Barium	(Ba)	11	< 7		
Beryllium	(Be)	< dl	< 1		
Bismuth	(Bi)	0.2	< 15		
Cadmium	(Cd)	2.2	< 1		
Cesium	(Cs)	8.9	< 10		
Gadolinium	(Gd)	0.4	< 0.4		
Lead	(Pb)	31	< 2		
Mercury	(Hg)	15	< 4		
Nickel	(Ni)	22	< 12		
Palladium	(Pd)	< dl	< 0.3		
Platinum	(Pt)	< dl	< 1		
Tellurium	(Te)	< dl	< 0.8		
Thallium	(Tl)	0.4	< 0.5		
Thorium	(Th)	< dl	< 0.03		
Tin	(Sn)	1.9	< 10		
Tungsten	(W)	1.2	< 0.4		
Uranium	(U)	0.2	< 0.04		

URINE CREATININE							
	RESULT mg/dL	REFERENCE INTERVAL	-2SD	-1SD	MEAN	+1SD	+2SD
Creatinine	26.7	35 - 225					

SPECIMEN DATA		
Comments:		
Date Collected: 5/16/2014	pH upon receipt: Acceptable	Collection Period: timed: 6 hours
Date Received: 5/17/2014	<dl: less than detection limit	Volume:
Date Completed: 5/19/2014	Provoking Agent: DMPS CAEDTA	Provocation: POST PROVOCATIVE
Method: ICP-MS	Creatinine by Jaffe Method	
Results are creatinine corrected to account for urine dilution variations. Reference intervals and corresponding graphs are representative of a healthy population under non-provoked conditions. Chelation (provocation) agents can increase urinary excretion of metals/elements.		
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