

CREATININE,
URINE
(tested in
Trace
Elements)

Orderable - CREUTE

Turn Around Time: 24 hours

Specimen:

24-hour urine collected in an **unused** 24-hour urine container or random urine

Collection Information:

[Trace Elements Collection Requirements](#)

Reference Ranges:

Creatinine Reference Ranges used for random urine calculations for Trace Elements

SI Units mmol/L

SI Units (Reported on Patient Chart):		
Female Age	Range	Mean
0-11	2.0-14.7	8.4
12-19	3.6-25.6	13.8
20-29	1.9-23.1	12.2
30-39	1.2-21.4	10.1
40-49	0.8-18.2	8.5
50-59	1.1-15.3	7.2
60-69	1.2-15.5	7.3
70-79	1.3-15.4	7.0
≥80	0.9-10.6	5.7

SI Units (Reported on Patient Chart):		
Male Age	Range	Mean
0-11	3.5-15.0	8.8
12-19	4.4-25.4	14.2
20-29	4.8-27.8	16.0
30-39	2.5-24.6	13.7
40-49	2.4-23.7	13.0
50-59	2.2-21.3	11.3
60-69	2.7-19.9	10.8
70-79	2.8-18.5	10.0
≥80	2.3-15.7	8.8



Laboratory:
Trace Elements Lab



Requisition:
TRACE ELEMENTS
REQUISITION



Method of Analysis:
High Resolution Sector
Field Inductively Coupled
Mass Spectrometry
[HR-SF-ICP-MS](#)



Test Schedule:
Batched analysis

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Conventional Units mg/L

Conventional Units:		
Female Age	Range	Mean
0-11	226-1663	950
12-19	407-2896	1561
20-29	215-2613	1380
30-39	136-2421	1143
40-49	90-2059	962
50-59	124-1731	814
60-69	136-1753	826
70-79	147-1742	792
>80	102-1199	645

Conventional Units:		
Male Age	Range	Mean
0-11	396-1697	995
12-19	498-2873	1606
20-29	543-3145	1810
30-39	283-2783	1550
40-49	271-2681	1471
50-59	249-2409	1278
60-69	305-2251	1222
70-79	317-2093	1131
>80	260-1776	995

Urine creatinine reference ranges applied to Trace Elements urine testing based on the following NHANES studies:

Barr DB, et al. Urinary creatinine concentrations in the U.S. population: Implications for Urinary Biologic Monitoring Measurements
Environmental Health Perspectives 113:192-200, 2005
Urinary Albumin and Urinary Creatinine NHANES 2007-2008

James E. Haddow. Urine Iodine Measurements, Creatinine Adjustment, and Thyroid Deficiency in an Adult United States Population
The Journal of Clinical Endocrinology & Metabolism 92(3):1019-1022, 2010

Interpretive Comments:

Find Interpretive Comment and Clinical Information [here](#):