

CITRATE, 24-HOUR URINE

Orderable - CITU24

Turn Around Time: 14 days

Specimen:

24-hour urine

Collection Information:

Collect urine with no preservative - acidified specimens are also acceptable.

Collection of a 24-Hour Urine Sample

Collect urine over a 24-hour period in a container with 30 mL of 6 N HCl for adult samples or 15 mL of 6 N HCl for pediatric samples.

Please complete the laboratory label attached to the collection bottle to include patient's name, collection start time and date and collection end time and date.

Reference Ranges:

Age	Range
20-21 years:	0.78-6.20 mmol/day
21-22 years	0.82-6.20 mmol/day
22-23 years:	0.85-6.20 mmol/day
23-24 years:	0.89-6.20 mmol/day
24-25 years:	0.93-6.20 mmol/day
25-26 years:	0.97-6.20 mmol/day
26-27 years:	1.00-6.20 mmol/day
27-28 years	1.04-6.20 mmol/day
28-29 years:	1.08-6.20 mmol/day
29-30 years:	1.11-6.20 mmol/day
30-31 years:	1.15-6.20 mmol/day
31-32 years:	1.19-6.20 mmol/day
32-33 years:	1.22-6.20 mmol/day
33-34 years:	1.26-6.20 mmol/day
34-35 years:	1.30-6.20 mmol/day
35-36 years:	1.34-6.20 mmol/day
36-37 years:	1.37-6.20 mmol/day



Laboratory:
Core Lab



Requisition:
GENERAL LABORATORY
REQUISITION




Method of Analysis:
Enzymatic



Test Schedule:
Referred out Monday-
Thursday



Referred Out Location:
[In-Common Laboratories](#)


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37-38 years:	1.41-6.20 mmol/day
38-39 years:	1.45-6.20 mmol/day
39-40 years:	1.48-6.20 mmol/day
40-41 years:	1.52-6.20 mmol/day
41-42 years:	1.56-6.20 mmol/day
42-43 years:	1.59-6.20 mmol/day
43-44 years:	1.63-6.20 mmol/day
44-45 years:	1.67-6.20 mmol/day
45-46 years:	1.71-6.20 mmol/day
46-47 years:	1.74-6.20 mmol/day
47-48 years:	1.78-6.20 mmol/day
48-49 years:	1.82-6.20 mmol/day
49-50 years:	1.86-6.20 mmol/day
50-51 years:	1.89-6.20 mmol/day
51-52 years:	1.93-6.20 mmol/day
52-53 years:	1.97-6.20 mmol/day
53-54 years:	2.00-6.20 mmol/day
54-55 years:	2.04-6.20 mmol/day
55-56 years:	2.08-6.20 mmol/day
56-57 years:	2.11-6.20 mmol/day
57-58 years:	2.15-6.20 mmol/day
58-59 years:	2.19-6.20 mmol/day
59-60 years:	2.22-6.20 mmol/day
60-61 years:	2.26-6.20 mmol/day

Interpretive Comments:

Urinary citrate is a major inhibitor of kidney stone formation due in part to binding of calcium in urine. Low urine citrate levels are considered a risk for kidney stone formation.

Special Processing:

Transfer a 50-mL aliquot of the measured urine to a sterile container and add 2 drops of 6 N HCl.

Storage and Shipment:

Store and ship frozen.