



This notice reflects an updated effective date of July 2nd, 2024, replacing a previously communicated effective date of June 20th, 2024.

Titanium, 24 Hour, Urine

Test ID: TIU24

Useful for:

Monitoring exposure and elimination of titanium in a 24 hour urine specimen

Methods:

Triple-Quadrupole Inductively Coupled Plasma-Mass Spectrometry (ICP-MS/MS)

Reference Values:

0-17 years: Not established.

> or =18 years: <1 mcg/24 h

Specimen Requirements:

Container/Tube: Urine Tubes, 10 mL (T068)

Preferred: Urine Tubes, 10 mL (T068)

Acceptable: Plastic, 10-mL urine tube or clean, plastic aliquot container with no metal cap or glued insert

Specimen Volume: 10 mL

- Collection Instructions:**
1. Collect urine for 24 hours.
 2. Leave specimen ambient until received at the collection center.
 3. Weigh urine for total volume.
 4. Pour off aliquot, freeze, and send to laboratory frozen.
 4. See Metals Analysis Specimen Collection and Transport for complete instructions.

Additional Information: See Urine Preservatives-Collection and Transportation for 24-Hour Urine Specimens for multiple collections.

Urine Preservative Collection Options

Note: The addition of preservative or application of temperature controls **must occur within 4 hours of completion** of the collection.

Ambient (Plain)	No
Refrigerate (Plain)	No
Frozen (Plain)	Preferred
50% Acetic Acid	OK
Boric Acid	No
Diazolidinyl Urea	No
6M Hydrochloric Acid	No
6M Nitric Acid	No
Sodium Carbonate	No
Thymol	No
Toluene	No

Minimum Volume: 0.3 mL

Specimen Stability Information:

Specimen Type	Temperature	Time
Urine	Frozen	28 days

Cautions:

Titanium is a trace metal commonly used in alloys and readily present in the environment. Thus, contamination of the collection site and of the specimen must be avoided. Failure to use metal-free collection procedures and devices may cause falsely increased results. See Specimen Required for collection and processing information.

CPT Code:

83018

Day(s) Performed: Wednesday

Report Available: 1-3 days

Questions

Contact Rebekah Walsh, Laboratory Resource Coordinator at 800-533-1710.