

Protein, Total, 12 Hour, Urine

Test ID: 12PU1

Useful for:

Evaluation of renal disease

Screening for monoclonal gammopathy

Screening for postural (orthostatic) proteinuria

In select clinical situations, collection of a 12-hour specimen may allow more rapid detection of proteinuria states (eg, screening pregnant patients for preeclampsia)

Methods:

Turbidimetry

Reference Values:

<163 mg/12 hours (day or night collection)

Reference values have not been established for patients <18 years of age.

Specimen Requirements:

Collection Container/Tube: Graduated urine container

Submission Container/Tube: 5 mL plastic tube or a plastic aliquot container

Specimen Volume: 4 mL

Collection Instructions:

1. Collect urine for 12 hours with no preservative. Specimen should be collected before fluorescein is given or not collected until at least 24 hours later.
2. Invert well before taking 4 mL aliquot. Do not overfill aliquot tube.
3. Refrigerate specimen within 4 hours of completion of 12-hour collection

Minimum Volume: 1 mL

Necessary Information:

12-Hour urine volume is required

Note:

Refrigeration is preferred but if ordering additional testing on the same collection these preservatives are acceptable and must occur within 4 hours of completion of collection.

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

Specimen Stability Information:

Specimen Type	Temperature	Time
Urine	Refrigerate (preferred)	14 days
	Ambient	24 hours
	Frozen	30 days

Cautions:

False proteinuria may be due to contamination of urine with menstrual blood, prostatic secretions, or semen.

After vigorous exercise, the urinary protein concentration may rise to 300 mg/24 hours in healthy individuals.

Normal newborn infants may have higher excretion of protein in urine during the first 3 days of life.

The presence of hemoglobin elevates protein concentration.

Protein electrophoresis and immunofixation may be required to characterize and interpret the proteinuria.

CPT Code:

84156

Day(s) Setup: Monday through Sunday; continuously

Analytic Time: Same day/1 day

Questions

Contact Nancy Benson, Laboratory Technologist Resource Coordinator at 800-533-1710.