

**Reporting Title:** M-protein Quantitation, 24 HR, U  
**Performing Location:** Rochester

**Shipping Instructions:**  
Refrigerate specimen during collection and send refrigerated.

**Necessary Information:**  
24-Hour volume (in milliliters) is required.

**Specimen Requirements:**  
**Supplies:** Urine Container, 60 mL (T313)  
**Submission Container/Tube:** Plastic, 60-mL urine bottle  
**Specimen Volume:** 50 mL  
**Collection Instructions:**

- 1. Collect urine for 24 hours.
- 2. Aliquot between 30 mL and 50 mL urine into plastic, 60-mL urine bottle.

**Additional Information:** See [Urine Preservatives-Collection and Transportation for 24-Hour Urine Specimens](#) for multiple collections.

**Forms:**  
[If not ordering electronically, complete, print, and send a Renal Diagnostics Test Request](#) (T830) with the specimen.

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

Specimen Type	Temperature	Time	Special Container
Urine	Refrigerated (preferred)	14 days	
	Frozen	5 days	
	Ambient	24 hours	

**Ask at Order Entry (AOE) Questions:**

Test ID	Question ID	Description	Type	Reportable
PTU3	TM24	Collection Duration	Plain Text	Yes
PTU3	VL92	Urine Volume	Plain Text	Yes

Result Codes:

Result ID	Reporting Name	Type	Unit	LOINC®
2833	A/G Ratio	Alphanumeric		44294-7
21446	M spike	Numeric	mg/24 h	42482-0
22307	M spike	Numeric	mg/24 h	42482-0
21447	Impression	Alphanumeric		32210-7
607970	Albumin	Alphanumeric	mg/24 h	6941-9
607971	Alpha-1 globulin	Alphanumeric	mg/24 h	6794-2
607972	Alpha-2 globulin	Alphanumeric	mg/24 h	6795-9
607973	Beta globulin	Alphanumeric	mg/24 h	94714-3
607974	Gamma globulin	Alphanumeric	mg/24 h	94715-0
VL92	Urine Volume	Numeric	mL	3167-4
TP6	Total Protein, 24 HR, U	Numeric	mg/24 h	2889-4
TM24	Collection Duration	Numeric	h	13362-9
CONCU	Total Protein Concentration	Numeric	mg/dL	21482-5

LOINC® and CPT codes are provided by the performing laboratory.

Supplemental Report:

No

Components:

Test Id	Reporting Name	CPT Units	CPT Code	Always Performed	Available Separately
PTU3	Protein, Total, 24 HR, U	1	84156	Yes	Yes, (Order PTU)
PEU	Protein Electrophoresis, 24 Hr, U	1	84166	Yes	No

CPT Code Information:

84156  
84166  
0077U (if appropriate)

Reflex Tests:

Test Id	Reporting Name	CPT Units	CPT Code	Always Performed	Available Separately
MPTU	M-protein Mass-Fix, 24 HR, U	1	0077U	No	No

Result Codes for Reflex Tests:

Test ID	Result ID	Reporting Name	Type	Unit	LOINC®
MPTU	617117	M-protein Isotype MS, 24 HR, U	Alphanumeric		In Process
MPTU	617118	Flag M-protein Isotype MS, 24 HR, U	Alphanumeric		No LOINC Needed

Reference Values:

PROTEIN, TOTAL  
<229 mg/24 hours

Reference values have not been established for patients who are younger than 18 years of age.

ELECTROPHORESIS, PROTEIN  
The following fractions, if present, will be reported as mg/24 hours:  
Albumin  
Alpha-1-globulin  
Alpha-2-globulin  
Beta-globulin  
Gamma-globulin

MASS-FIX M-PROTEIN ISOTYPE  
M-protein Isotype MS:  
No monoclonal protein detected

Flag M-protein Isotype MS:  
Negative