

Reporting Title: M-protein Studies, 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:

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
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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
617117	M-protein Isotype MS, 24 HR, U	Alphanumeric		In Process
617118	Flag M-protein Isotype MS, 24 HR, U	Alphanumeric		No LOINC Needed
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
MPTU	M-protein Mass-Fix, 24 HR, U	1	0077U	Yes	No
PEU	Protein Electrophoresis, 24 Hr, U	1	84166	Yes	No
PTU3	Protein, Total, 24 HR, U	1	84156	Yes	Yes, (Order PTU)

CPT Code Information:

84156
84166
0077U

Reference Values:

PROTEIN, TOTAL:

<229 mg/24 hours

Reference values have not been established for patients <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

Betaglobulin

Gamma globulin

MASS-FIX M-PROTEIN ISOTYPE:

M-protein Isotype MS:

No monoclonal protein detected

Flag M-protein Isotype MS:

Negative