Reporting Title: M-protein Quantitation, Random, U
Performing Location: Rochester

Ordering Guidance:

The use of a random urine specimen is sufficient for identifying the presence or absence of monoclonal proteins, but a 24-hour specimen is preferred for quantitating and monitoring the abnormality. See SMPU / Monoclonal Protein Screen, 24 hour, Urine.

Shipping Instructions:

Refrigerate specimen after collection and send refrigerated.

Specimen Requirements:

Supplies: Urine Container, 60 mL (T313)
Submission Container/Tube: Plastic, 60-mL urine bottle
Specimen Volume: 50 mL
Collection Instructions:
1. Collect random urine specimen.
2. Aliquot between 30 mL and 50 mL of urine into a plastic, 60-mL urine bottle.

Specimen Minimum Volume:

30 mL

Forms:

If not ordering electronically, complete, print, and send a Renal Diagnostics Test Request (T830) with the specimen.

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

Result Codes:

Result ID	Reporting Name	Type	Unit	LOINC®
607975	Albumin	Alphanumeric	mg/dL	6942-7
607976	Alpha-1 globulin	Alphanumeric	mg/dL	9734-5
607977	Alpha-2 globulin	Alphanumeric	mg/dL	38190-5
607978	Beta globulin	Alphanumeric	mg/dL	9744-4
607979	Gamma globulin	Alphanumeric	mg/dL	9745-1
33044	A/G Ratio	Alphanumeric		44293-9
33045	M spike	Numeric	mg/dL	40661-1
33046	M spike	Numeric	mg/dL	40661-1
33047	Impression	Alphanumeric		49299-1
PTCN1	Protein, Total, Random, U **Also used by tests: RPTU2**	Numeric	mg/dL	2888-6
CRTR1	Creatinine, Random, U **Also used by tests: RPTU2**	Numeric	mg/dL	2161-8
PCRT1	Protein/Creatinine Ratio **Also used by tests: RPTU2**	Numeric	mg/mg	2890-2

LOINC and CPT codes are provided by the performing laboratory.

Supplemental Report:
No

Components:

Test ID	Reporting Name	CPT Units	CPT Code	Always Performed	Orderable Separately
RPEU	Protein Electrophoresis, Random, U			Yes	No
RPTU2	Protein/Creatinine Ratio, Random, U			Yes	Yes (RPTU1)

CPT Code Information:

84156
82570
84166
0077U (if appropriate)

Reflex Tests:

Test ID	Reporting Name	CPT Units	CPT Code	Always Performed	Orderable Separately
MPTRU	M-protein Mass-Fix, Random, U			No	No

Result Codes for Reflex Tests:

Test ID	Result ID	Reporting Name	Type	Unit	LOINC®
MPTRU	617119	M-protein Isotype MS, Random, U	Alphanumeric		In Process
MPTRU	617120	Flag M-protein Isotype MS, Random, U	Alphanumeric		No LOINC Needed

Reference Values:

CREATININE:
 > or =18 years old: 16-326 mg/dL
 Reference values have not been established for patients who are younger than 18 years of age.

 PROTEIN/CREATININE RATIO:
 > or =18 years: <0.18 mg/mg creatinine
 Reference values have not been established for patients younger than 18 years of age.

 ELECTROPHORESIS, PROTEIN
 The following fractions, if present, will be reported as mg/dL:
 -Albumin
 -Alpha-1-globulin
 -Alpha-2-globulin
 -Beta-globulin
 -Gamma-globulin
 No reference values apply to random urines.

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

 Flag M-protein Isotype MS:
 Negative