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**Reporting Title:** M-protein Screen, 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®
617119	M-protein Isotype MS, Random, U	Alphanumeric		In Process
617120	Flag M-protein Isotype MS, Random, U	Alphanumeric		No LOINC Needed
PTCN1	Protein, Total, Random, U <b>Also used by tests: RPTU2</b>	Numeric	mg/dL	2888-6
CRTR1	Creatinine, Random, U <b>Also used by tests: RPTU2</b>	Numeric	mg/dL	2161-8
PCRT1	Protein/Creatinine Ratio <b>Also used by tests: RPTU2</b>	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
MPTRU	M-protein Mass-Fix, Random, U			Yes	No
RPTU2	Protein/Creatinine Ratio, Random, U			Yes	Yes (RPTU1)

**CPT Code Information:**

84156  
82570  
84166 Electrophoresis, protein (if appropriate)  
0077U

## Reflex Tests:

Test ID	Reporting Name	CPT Units	CPT Code	Always Performed	Orderable Separately
RPEU	Protein Electrophoresis, Random, U			No	No

## Result Codes for Reflex Tests:

Test ID	Result ID	Reporting Name	Type	Unit	LOINC®
RPEU	607975	Albumin	Alphanumeric	mg/dL	6942-7
RPEU	607976	Alpha-1 globulin	Alphanumeric	mg/dL	9734-5
RPEU	607977	Alpha-2 globulin	Alphanumeric	mg/dL	38190-5
RPEU	607978	Beta globulin	Alphanumeric	mg/dL	9744-4
RPEU	607979	Gamma globulin	Alphanumeric	mg/dL	9745-1
RPEU	33044	A/G Ratio	Alphanumeric		44293-9
RPEU	33045	M spike	Numeric	mg/dL	40661-1
RPEU	33046	M spike	Numeric	mg/dL	40661-1
RPEU	33047	Impression	Alphanumeric		49299-1

## Reference Values:

### CREATININE:

> or =18 years old: 16-326 mg/dL

Reference values have not been established for patients 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

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Flag M-protein Isotype MS:  
Negative