

## TEST UPDATE

### URINE PROTEIN ELECTROPHORESIS

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This change will take effect **May 19, 2014**

#### OVERVIEW AND CLINICAL UTILITY:

Effective May 19, 2014, PathGroup will implement in-house testing for Urine Protein Electrophoresis (UPE). Protein electrophoresis is a well-established technique routinely used for the screening of protein abnormalities. Urine protein electrophoretic patterns can classify proteinuria as glomerular, tubular, combined, stress or normal. The urine total protein concentration, electrophoretic pattern, and the presence of monoclonal immunoglobulin can be suggestive of monoclonal gammopathies indicating a clonal expansion of plasma cells or mature B lymphocytes that include diseases such as multiple myeloma, Waldenstrom's macroglobulinemia, systemic amyloidosis, or light chain deposition disease. Monoclonal gammopathy patients may present with a minor monoclonal protein abnormality or a significant M-spike on urine protein electrophoresis. Typing of monoclonal proteins is usually done by immunofixation electrophoresis and can identify the immunoglobulin heavy-chain or light chain (Bence Jones protein). Bence Jones proteins are found in two-thirds of multiple myeloma cases.

#### TEST METHODOLOGY:

Gel Electrophoresis/Immunofixation Electrophoresis

#### ORDERING:

TEST NAME	NEW TEST CODE	CPT
Urine Protein Electrophoresis and Bence Jones, 24 Hour Urine	UPEBJ24	84156/ 84165/84165-26/ 86335/86335-26
Urine Protein Electrophoresis and Bence Jones, Random Urine	UPEBJ	84156/84165/84165-26/ 86335/86335-26
Urine Protein Electrophoresis w/ Reflex to Bence Jones (Quant) 24 hour Urine	UPE24H	84156/84165/84165-26 If reflex 86335/86335-26
Urine Protein Electrophoresis w/ Reflex to Bence Jones (Qual) Random Urine	UPE	84156/84165/84165-26 If reflex 86335/86335-26
Bence Jones Protein (Immunofixation), Urine	BJP	86335/ 86335-26

- Urine protein electrophoresis panels can be ordered without interpretation. Please refer to the Directory of Services (DOS) or contact client services for assistance.
- The following test codes will be discontinued:

PE24T	PEU
BJPKLC	MCGPU
- If polyclonal urine free kappa and/or free lambda quantitation is desired order test code KLLC2 (24 Hour Urine) or KLLCU (Random urine)

**REFERENCE RANGE:**

Refer to the Directory of Services (DOS) for updated reference ranges.

**SPECIMEN COLLECTION AND STORAGE:**

**IF ORDERING:**

- Collect: 24-Hour Urine (refrigerate during collection) or random urine specimens
- Transfer 4 mL aliquot from a well-mixed 24 hour collection to an individual standard transport tube (Min: 3 mL). Record total volume and collection time on transport tube.
- Transport refrigerated.
- Stability: 7 days refrigerated

**TEST PERFORMED:** Monday - Friday

**TURNAROUND TIME:** 1 - 4 Days

For further questions, please contact Client Services at 615-562-9300 or 888-474-5227